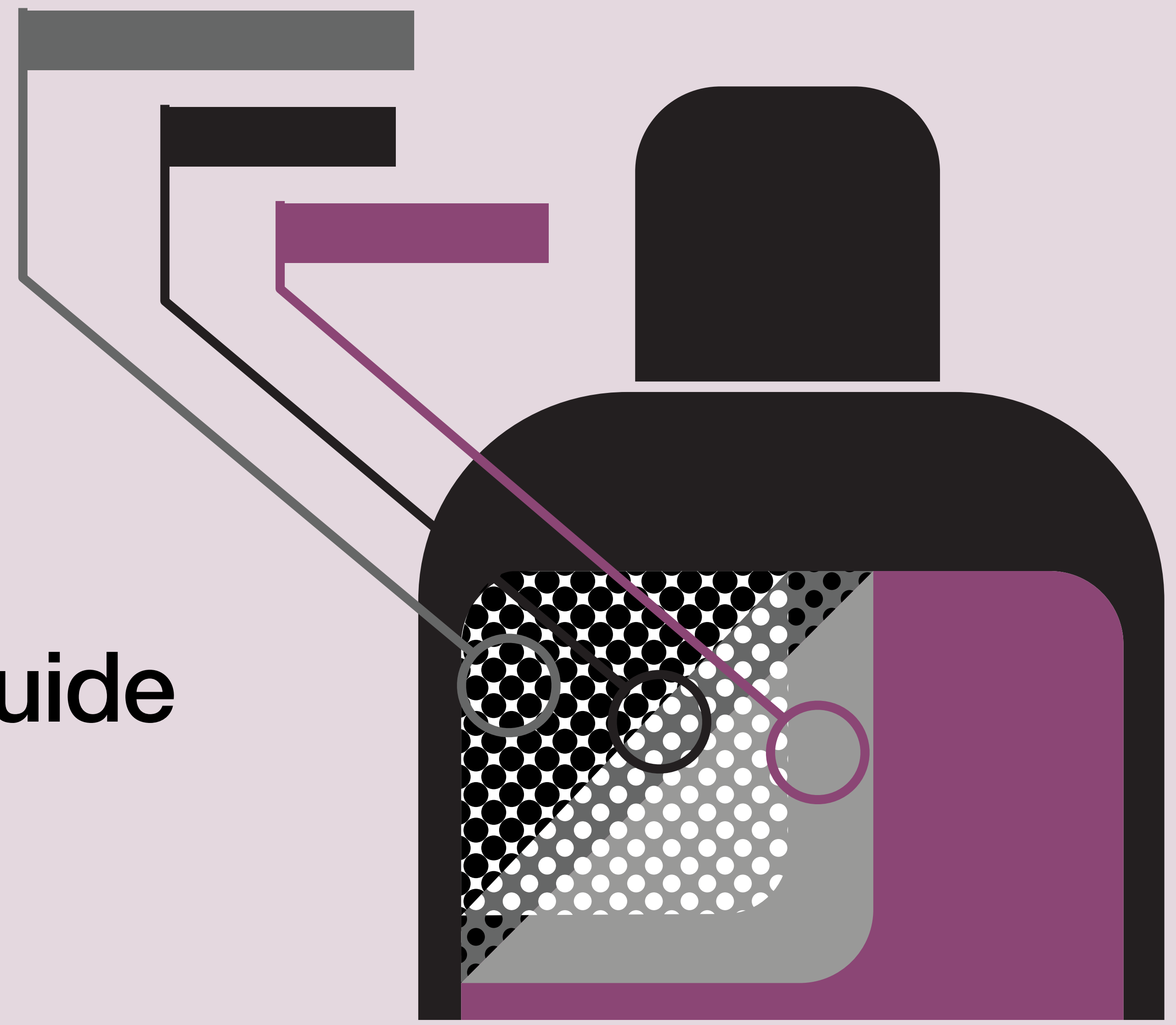


# Product Component Guide

Sub-Saharan Africa



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# How to use this guide

## Facestock

### Basis Weight

The average weight of the liner in grams per square meter of material.

### Thickness

The thickness of the facestock in microns.

## Adhesive

### Initial tack

Defines the degree to which the product adheres to the substrate on first contact.

### Ultimate adhesion

Identifies the long-term adhesive strength.

### Minimum Application Temperature

The minimum temperature at the time of application of the label. The substrate must be clean at the time of application.

### Service Temperature Range

The range of temperatures within which the properties of the applied label are substantially unchanged over a prolonged period of time. The actual duration and temperature extremes depend also on the type of face material used, the substrate and environment.

### Applications

#### Freezer:

Adhesives suitable for application to substrates at temperatures down to -20°C

#### Chilled:

Suitable for use on dry surfaces that may be exposed to condensation after application.

#### Wet Surfaces:

Suitable for use on surfaces where partially exposed to limited moisture or condensation.

#### Tight Mandrel:

Suitable for low diameter substrates greater than 15mm on glass and PE. Prior testing is highly recommended.

#### Ice Bucket:

Suitable for submersion in ice bucket for periods of up to 2 hours.

## Liner

### Basis Weight

The average weight of the liner in grams per square meter of material.

### Thickness

The thickness of the facestock in microns.

# Important Information (1 of 2)

Avery Dennison provides a broad range of solutions from Paper to Films, with many different adhesives available for different application needs.

## Critical Substrates

Substances such as textiles, plasticised vinyls, apolar and rough surfaces.

## Food Contact Status

For direct or indirect contact to food, adhesives must be certified to comply with international standards. The two most widely recognised standards are:

FDA (Food and Drug Administration) from the United States.

- ▶ Indirect food contact (separated by a functional barrier) – FDA 21CFR175.105
- ▶ Direct contact to poultry, dry food, and processed, frozen, dried, or partially dehydrated fruits and vegetables – FDA 21CFR175.125 (a)
- ▶ Direct food contact to raw fruit and raw vegetables – FDA 21CFR175.125 (b)
- ▶ BfR (Federal Institute for Risk Assessment) from Germany.
- ▶ Direct contact with dry and moist non fatty foodstuffs for Plastic Dispersions (eg. Acrylic emulsion adhesives) – Bfr XIV
- ▶ Direct contact with dry and moist non fatty foodstuffs for Natural & Synthetic rubbers (eg Hot Melt Adhesives) – Bfr XXI

A number of Avery Dennison's adhesives are certified to these standards. Please contact your local Avery Dennison representative for an up-to-date listing of food-certified adhesives.

## Quality Assurance

Avery Dennison self-adhesive materials are manufactured to high quality standards and are Certified to ISO 9001:2008.

## Regulations and Specifications

Many Avery Dennison products have been tested to, and meet the various requirements of important regulations and international specifications such as toy labelling, labels for marine use, food labelling, industrial specifications, etc. Details can be made available upon request for each individual product.

## Recommended Storage Conditions

- ▶ Store at a temperature of 22°C +/- 2°C and a relative humidity of 50% +/- 5%.
- ▶ Original Packaging.
- ▶ Away from direct sunlight.
- ▶ Store reels of printed labels horizontally.
- ▶ Rotate stocks so that oldest material is used first.
- ▶ Ensure that winding tension of printed label reels is not too tight in order to prevent adhesive bleed.

Repack partly-used reels of raw material or printed labels in their original packaging or identical packaging material.

# Important Information (2 of 2)

## Important Notice

Information on physical and chemical characteristics is based upon tests we believe to be reliable. The values are intended only as a source of information and are given without guarantee and do not constitute a warranty. Purchasers should independently determine, prior to use, the suitability of any material for a specific purpose.

## Warranty

Avery Dennison products are manufactured under careful quality control and are warranted to be free from defect in materials and workmanship. Any material shown to our satisfaction to be defective at the time of delivery will be compensated as per local country policy on the roll(s) returned. The manufacturer will not be responsible for claims beyond replacement of the material.

No sales person, representative or agent is authorised to give any guarantee, warranty or make any representation contrary to the foregoing.

All products described herein are sold subject to Avery Dennison's standard conditions of sale, a copy of which is available upon request.

## Environmental Aspects

Avery Dennison is committed to protecting the environment and manufacturing safe products. We are actively involved in a continuous search for base materials and manufacturing technologies that have the least possible impact on the environment. For information on individual products or components please contact your Avery Dennison representative.

## Disclaimer Information

Specific products must be used for the following applications – Hot Fill or Freshly Blow Molded Bottles; Blood Bags and products for Primary Food Contact.


Outdoor use of PVCs (due to plasticiser migration) and synthetic films when exposure to direct UV light can in no way be guaranteed. Check with Marketing on recommended life.

Wine Labels - The selection of suitable varnishes for white wine applications needs to be made in conjunction with your ink supplier and with the knowledge that uncoated paper stocks will exhibit higher moisture ingress versus alternative substrates.

# Prime Paper (1 of 2)

			<u>Basis Weight</u>	<u>Thickness</u>	<u>Printability</u>	<u>Stiffness</u>	<u>OBA</u>	<u>Tensile Strength</u>	<u>Water Resistance</u>
<b>Cast Coated</b>									
	<b>HIGHGLOSS 80</b>	A bright white, one side gloss finished cast coated paper.	80 g/m <sup>2</sup>	88 µm	★★★★★	★★★★★☆	Yes	★★★★★★	★★★★★★
<b>Machine Coated</b>									
	<b>SEMIGLOSS 80</b>	A smooth gloss white, one side machine coated woodfree paper	78 g/m <sup>2</sup>	67 µm	★★★★★☆	★★★★☆	Yes	★★★★☆	★★★
	<b>SEMIGLOSS 80 FSC</b>	A FSC certified, smooth gloss white, one side machine coated woodfree paper	78 g/m <sup>2</sup>	67 µm	★★★★★☆	★★★★☆	Yes	★★★★☆	★★★
	<b>SEMIGLOSS 85</b>	A higher gauge smooth gloss white, one side machine coated woodfree paper	85 g/m <sup>2</sup>	70 µm	★★★★★☆	★★★★★☆		★★★★★☆	★★★★☆
	<b>SEMIGLOSS 70</b>	A light weight, smooth gloss white one side machine coated woodfree paper	70 g/m <sup>2</sup>	56 µm	★★★★★☆	★★★★	Yes	★★★★	★★★
	<b>GLOSS FSC</b>	A FSC certified, smooth gloss white, one side machine coated woodfree paper	80 g/m <sup>2</sup>	65 µm	★★★★★☆	★★★☆	Yes	★★★★	★★★
	<b>FASLITHO</b>	A white machine finished and surface sized wood free printing paper.	70 g/m <sup>2</sup>	61 µm	★★★	★★★★	Yes	★★	-
	<b>MC PRIMECOAT FSC</b>	A FSC certified, smooth gloss white, one side machine coated woodfree paper	80g/m <sup>2</sup>	69 µm	★★★★★☆	★★★★	Yes	★★	★★★★☆
	<b>LW60</b>	A smooth white, ultra light-weight, one-side machine coated woodfree printing paper	60 g/m <sup>2</sup>	55 µm	★★★	★		★	★★★

# Prime Paper (2 of 2)

			<u>Basis Weight</u>	<u>Thickness</u>	<u>Printability</u>	<u>Water Resistance</u>
<b>Vellum</b>						
	<b>TRANSFER VELLUM</b>	A FSC certified,matte white, surface-sized, supercalendered woodfree paper designed for use in thermal transfer printing.	68 g/m <sup>2</sup>	66 µm	★★★	-
	<b>FASMATT VELLUM</b>	A coated, matte white wood free paper designed for use in thermal transfer printing.	70 g/m <sup>2</sup>	62 µm	★★★	-
<b>Foils</b>						
	<b>MP PLUS SILVER &amp; GOLD</b>	Top coated vacuum metalised printing paper available in bright gold and silver	84 g/m <sup>2</sup>	72 µm	★★★★★	★★★
<b>Radiants</b>						
	 <b>RADIANT PAPER FSC</b>	FSC approved, one side fluorescent coated, woodfree printing paper. Available in bright orange, chartreuce, green, red and pink	80 g/m <sup>2</sup>	93 µm	★★★★★	-
<b>Tyre Label</b>						
	<b>FASTYRE</b>	A white coated, woodfree printing paper with semi-gloss appearance, laminated to a flexible aluminium barrier foil.	81 g/m <sup>2</sup>	64 µm	★★★★☆	★★★★★★
<b>Correction Labels</b>						
	<b>SEMIGLOSS COVERALL</b>	A smooth gloss white, one side machine coated woodfree paper with a barrier coating designed to give optimum opacity	85 g/m <sup>2</sup>	61 µm	★★★★★☆	★★★★★



# HIGHGLOSS 80

## Cast Coated

A bright white, one side gloss finished cast coated paper.

### Basis Weight

80 g/m<sup>2</sup>

### Thickness

88 µm

### Applications

Cosmetic, pharmaceutical, food industry, chemical products and promotional labels.

### Features

- ▶ High gloss coating giving brilliant multicolour print quality and attractive gloss appearance
- ▶ Good resistance to edge wicking where some contact with water may occur

### Printing & Converting

- ▶ High gloss is specially suited to single and/or multi-colour line or process printing by letterpress, offset, flexo, screen and hot foil stamping.
- ▶ Higher strength with excellent conversion characteristics on rotary and flatbed presses

### Quick Compare Guide

Printability	★★★★★
Stiffness	★★★★☆
OBA	Yes
Tensile Strength	★★★★★
Water Resistance	★★★★★



# SEMIGLOSS 80

## Machine Coated

A smooth gloss white, one side machine coated woodfree paper

### Basis Weight

78 g/m<sup>2</sup>

### Thickness

67 μm

### Applications

Cosmetic, pharmaceutical, food industry, and promotional labels.

### Features

- ▶ Excellent gloss appearance and attractive print quality
- ▶ Provides some moisture resistance when paired with a suitable varnish or overlaminating film
- ▶ Good scuff and environmental resistance when offered with a suitable varnish, but is not suitable for outdoor use
- ▶ High exposure to moisture may cause product to exhibit edge-wicking

### Printing & Converting

- ▶ Printable by all converting printing technologies in single and/or multicolor, line or process printing by Letterpress, Offset or Flexo.
- ▶ A higher gloss finish can be achieved by additional varnishing.
- ▶ Good conversion characteristics in rotary and flatbed presses

### Quick Compare Guide

Printability	★★★★☆
Stiffness	★★★☆☆
OBA	Yes
Tensile Strength	★★★☆☆
Water Resistance	★★★☆☆

# SEMIGLOSS 80 FSC

## Machine Coated

A FSC certified, smooth gloss white, one side machine coated woodfree paper

**Basis Weight**  
78 g/m<sup>2</sup>

**Thickness**  
67 µm



### Applications

Cosmetic, pharmaceutical, food industry, and promotional labels.

### Features

- ▶ FSC Certified
- ▶ Excellent gloss appearance and multicolour print quality
- ▶ Provides some moisture resistance when paired with a suitable varnish or overlaminating film
- ▶ Good scuff and environmental resistance when offered with a suitable varnish, but is not suitable for outdoor use
- ▶ High exposure to moisture may cause product to exhibit edge-wicking

### Printing & Converting

- ▶ Printable by all converting printing technologies in single and/or multicolor, line or process printing by Letterpress, Offset or Flexo.
- ▶ A higher gloss finish can be achieved by additional varnishing.
- ▶ Good conversion characteristics in rotary and flatbed presses.

### Quick Compare Guide

Printability	★★★★☆
Stiffness	★★★☆☆
OBA	Yes
Tensile Strength	★★★☆☆
Water Resistance	★★★☆☆

# SEMIGLOSS 85

## Machine Coated

A higher gauge smooth gloss white, one side machine coated woodfree paper

### Basis Weight

85 g/m<sup>2</sup>

### Thickness

70 µm

### Applications

Cosmetic, pharmaceutical, food industry, and promotional labels.

### Features

- ▶ This heavier facstock is designed for more challenging label shapes and superior converting performance.
- ▶ Excellent gloss appearance and multicolour print quality
- ▶ Provides some moisture resistance when paired with a suitable varnish or overlaminating film
- ▶ Good scuff and environmental resistance when offered with a suitable varnish, but is not suitable for outdoor use
- ▶ High exposure to moisture may cause product to exhibit edge-wicking

### Printing & Converting

- ▶ Printable by all converting printing technologies in single and/or multicolor, line or process printing by Letterpress, Offset or Flexo.
- ▶ A higher gloss finish can be achieved by additional varnishing.
- ▶ Good conversion characteristics in rotary and flatbed presses.

### Quick Compare Guide

Printability	★★★★☆
Stiffness	★★★★☆
Tensile Strength	★★★★☆
Water Resistance	★★★☆☆

# SEMIGLOSS 70

## Machine Coated

A light weight, smooth gloss white one side machine coated woodfree paper

**Basis Weight**  
70 g/m<sup>2</sup>

**Thickness**  
56 µm

### Applications

Fruit labelling, small mandrel

### Features

- ▶ This light-weight paper has been specifically designed for labeling fruit & vegetables.
- ▶ Exhibts excellent gloss appearance to deliver attractive multicolour print

### Printing & Converting

- ▶ Printable by all converting printing technologies in single and/or multicolor, line or process printing by Letterpress, Offset or Flexo.
- ▶ A higher gloss finish can be achieved by additional varnishing.
- ▶ Good conversion characteristics in rotary and flatbed presses.

### Quick Compare Guide

Printability	★★★★☆
Stiffness	★★★
OBA	Yes
Tensile Strength	★★★
Water Resistance	★★★

# GLOSS FSC

## Machine Coated

A FSC certified, smooth gloss white, one side machine coated woodfree paper

**Basis Weight**  
**80 g/m<sup>2</sup>**

**Thickness**  
**65 µm**



### Applications

Cosmetic, pharmaceutical, food industry, and promotional labels.

### Features

- ▶ FSC Certified
- ▶ Excellent gloss appearance and multicolour print quality
- ▶ Provides some moisture resistance when paired with a suitable varnish or overlaminating film
- ▶ Good scuff and environmental resistance when offered with a suitable varnish, but is not suitable for outdoor use
- ▶ High exposure to moisture may cause product to exhibit edge-wicking

### Printing & Converting

- ▶ Printable by all converting printing technologies in single and/or multicolor, line or process printing by Letterpress, Offset or Flexo.
- ▶ A higher gloss finish can be achieved by additional varnishing.
- ▶ Good conversion characteristics in rotary and flatbed presses.

### Quick Compare Guide

Printability	★★★★☆
Stiffness	★★☆
OBA	Yes
Tensile Strength	★★★
Water Resistance	★★★

# FASLITHO

## Machine Coated

A white machine finished and surface sized wood free printing paper.

### Basis Weight

70 g/m<sup>2</sup>

### Thickness

61 µm

### Applications

Cosmetic, pharmaceutical, food industry, and promotional labels.

### Features

▶ Suitable for a wide range of labels for general purpose applications.

### Printing & Converting

- ▶ Absorbent surface suited to overprinting systems and price marking labels.
- ▶ Excellent die cutting and stripping.

### Quick Compare Guide

Printability	★★★
Stiffness	★★★
OBA	Yes
Tensile Strength	★★
Water Resistance	-



# MC PRIMECOAT FSC

## Machine Coated

A FSC certified, smooth gloss white, one side machine coated woodfree paper

### Basis Weight

80g/m<sup>2</sup>

### Thickness

69 µm



### Applications

Cosmetic, pharmaceutical, food industry, and promotional labels.

### Features

- ▶ FSC Certified
- ▶ Excellent gloss appearance and multicolour print quality
- ▶ Provides some moisture resistance when paired with a suitable varnish or overlaminating film
- ▶ Good scuff and environmental resistance when offered with a suitable varnish, but is not suitable for outdoor use
- ▶ High exposure to moisture may cause product to exhibit edge-wicking

### Printing & Converting

- ▶ Printable by all converting printing technologies in single and/or multicolor, line or process printing by Letterpress, Offset or Flexo.
- ▶ A higher gloss finish can be achieved by additional varnishing.
- ▶ Good conversion characteristics in rotary and flatbed presses.

### Quick Compare Guide

Printability	★★★★☆
Stiffness	★★★
OBA	Yes
Tensile Strength	★★
Water Resistance	★★★☆



# LW60

## Machine Coated

A smooth white, ultra light-weight, one-side machine coated woodfree printing paper

### Basis Weight

60 g/m<sup>2</sup>

### Thickness

55 µm

### Applications

Tight mandrel, pill bottles and syringes, security

### Features

- ▶ Specially engineered for small cylindrical applications for pharmaceutical and cosmetic Industry.
- ▶ Low memory, makes it ideal for tight mandrel applications such as labelling small cylindrical substrates such as vials, syringes, dropper bottles, etc.
- ▶ Also used for tamper-resistant security labelling due to it easy tear properties
- ▶ It is recommended that following points should be taken into consideration before label application:
  - ▶ The container should be free of contamination either in a form of mould release agent or physical contamination in a form of dry powder or liquid.
  - ▶ The concentricity of the cylindrical containers should be in tight tolerance

### Printing & Converting

- ▶ The product is suited to single and /or multicolour line or process printing by Letterpress, Offset, Flexo or Screen.

### Quick Compare Guide

Printability	★★★
Stiffness	★
Tensile Strength	★
Water Resistance	★★★

# TRANSFER VELLUM

## Vellum

---

A FSC certified,matte white, surface-sized, supercalendered woodfree paper designed for use in thermal transfer printing.

**Basis Weight**

68 g/m<sup>2</sup>

**Thickness**

66 µm

**Applications**

Print & apply, warehouse inventory labeling, product identification labels.

**Features**

▶ This white economical multipurpose paper provides good print resolution of ladder barcodes and numeric data with thermal transfer print speed up to 150mm/sec.

**Printing & Converting**

- ▶ Suitable for Thermal Transfer and conventional print methods. The print quality of the Thermal Transfer system depends on the correct match of Thermal Transfer ribbon, printer and printing surface, therefore it is strongly recommended to test in application before use.
- ▶ The smooth surface of this paper is specially suited for single and multicolour line or process printing in all the usual printing technologies. Offers very good print characteristics where a gloss surface finish is not required.

**Quick Compare Guide**

Printability ★★ ★

Water Resistance -

# FASMATT VELLUM

## Vellum

---

A coated, matte white wood free paper designed for use in thermal transfer printing.

### Basis Weight

70 g/m<sup>2</sup>

### Thickness

62 µm

### Applications

Print & apply, warehouse inventory labeling, product identification labels.

### Features

- ▶ This white economical multipurpose paper provides good print resolution of ladder barcodes and numeric data.

### Printing & Converting

- ▶ Suitable for Thermal Transfer and conventional print methods. The print quality of the Thermal Transfer system depends on the correct match of Thermal Transfer ribbon, printer and printing surface, therefore it is strongly recommended to test in application before use.
- ▶ The smooth surface of this paper is specially suited for single and multicolour line or process printing in all the usual printing technologies. Offers very good print characteristics where a gloss surface finish is not required.

### Quick Compare Guide

Printability ★★ ★

Water Resistance -

# MP PLUS SILVER & GOLD

## Foils

---

Top coated vacuum metalised printing paper available in bright gold and silver

### Basis Weight

84 g/m<sup>2</sup>

### Thickness

72 µm

### Applications

Cosmetics, toiletries, luxury articles, prepacked food, wine, spirits, dairy products, stickers and promotional labelling.

### Features

- ▶ Material has a print receptive topcoating in order to give good wettability and ink adhesion with suitable inks
- ▶ FSC Certified

### Printing & Converting

- ▶ Printable with letterpress, screen, flexo, offset and gravure processes. Inks suitable for non absorbign surfaces should be used.
- ▶ Protection of the printed surface with a suitable varnish or overlamine is recommended for optimal scratch resistance.
- ▶ Metallised papers are sensitive to humidity and should not be exposed to extreme heat, cold or humidity as this may affect the printing performance and surface appearance.

### Quick Compare Guide

Printability	★★★★
Water Resistance	★★★

# RADIANT PAPER FSC

## Radiants

---

FSC approved, one side fluorescent coated, woodfree printing paper. Available in bright orange, chartreuse, green, red and pink

**Basis Weight**  
**80 g/m<sup>2</sup>**

**Thickness**  
**93 µm**



### Applications

Warning, instruction, promotional, advertising labels and price marking.

### Features

- ▶ General purpose labels for eye-catching applications

### Printing & Converting

- ▶ Suitable for printing by letterpress, offset, flexo, laser and thermal transfer.
- ▶ In order to achieve proper ink density it is recommended that opaque inks are used

### Quick Compare Guide

---

Printability	★★★★
Water Resistance	-



# FASTYRE

## Tyre Label

A white coated, woodfree printing paper with semi-gloss appearance, laminated to a flexible aluminium barrier foil.

**Basis Weight**

81 g/m<sup>2</sup>

**Thickness**

64 µm

**Applications**

Tyre Labelling

**Features**

- ▶ Specially designed to meet the performance requirements of automotive tyre labelling.
- ▶ The special composition provides superb anchorage of the label to the compound curved and extremely irregular surface of tyres, neglecting the negative influences of surface contaminants such as mould release agents or components migrating from the rubber.
- ▶ The aluminum barrier foil prevents migration of the components through the facestock thus avoiding the label from getting stained.

**Printing & Converting**

- ▶ Convertible by both rotary and flatbed however better results are achieved through flatbed converting
- ▶ The heavy adhesive coatweight does not allow high speed converting, special care is required with regard to die-cutting and matrix stripping.
- ▶ Sharp, high quality dies are required to assure smooth matrix stripping and to avoid problems in eventual automatic or semi-automatic label dispensing
- ▶ Heat, used for ink drying, may have a negative effect on conversion or dispensing and should be avoided. If necessary a temperature level of 50oC should not be exceeded
- ▶ Printing can be done on all applicable label printing technologies
- ▶ To avoid adhesive bleed label roll should not be wound tight and not be exposed to elevated temperatures during storage

**Quick Compare Guide**

Printability	★★★☆
Water Resistance	★★★★★

# SEMIGLOSS COVERALL

## Correction Labels

---

A smooth gloss white, one side machine coated woodfree paper with a barrier coating designed to give optimum opacity

**Basis Weight**

85 g/m<sup>2</sup>

**Thickness**

61 µm

**Applications**

Correction labelling, size changes, relabelling obsolete pre-printed packaging

**Features**

- ▶ Gloss appearance
- ▶ High opacity
- ▶ Excellent barrier properties

**Printing & Converting**

- ▶ Suited for single and/or multicolor line printing by Flexo or Letterpress
- ▶ Excellent converting performance for roll fed applications

**Quick Compare Guide**

Printability ★★★★★☆

Water Resistance ★★★★★



# Prime Film

		<u>Basis Weight</u>	<u>Thickness</u>	<u>Printability</u>	<u>Stiffness</u>	<u>Conformability</u>
<b>Machine Direction Oriented (MDO) - White</b>						
<b>PRIMAX® PLUS</b>	A white, satin finished, machine direction oriented, corona-treated polyolefin film	75 g/m <sup>2</sup>	75 µm	★★★★★	★★★★	★★★★★★
<b>Polyethylene (PE) - White</b>						
<b>PE85 TOP WH</b>	A white polyethylene film with a print-receptive topcoat.	82 g/m <sup>2</sup>	82 µm	★★★★★★	★★	★★★★★★
<b>PE100 TOP WH</b>	A white polyethylene film with a print-receptive topcoat.	92 g/m <sup>2</sup>	93 µm	★★★★★★	★★	★★★★★
<b>Polyethylene (PE) - Clear</b>						
<b>PE85 TOP CL</b>	A clear polyethylene film with a print-receptive topcoat.	84 g/m <sup>2</sup>	82 µm	★★★★★★	★★	★★★★★★
<b>Polypropylene (PP) - White</b>						
<b>PP60 TOP WHITE</b>	A white bi-axially oriented, polypropylene film with a print-receptive topcoat.	59 g/m <sup>2</sup>	57 µm	★★★★★★	★★★★★★	★★
<b>PP60 TOP WHITE CAVITATED</b>	A bi-axially oriented glossy, pearlized white polypropylene film with a print-receptive coating	43 g/m <sup>2</sup>	58 µm	★★★★★★	★★★★★☆	★★
<b>Polypropylene (PP) - Clear</b>						
<b>PP60 TOP CLEAR</b>	A clear bi-axially oriented, polypropylene film with a print-receptive topcoat.	52 g/m <sup>2</sup>	58 µm	★★★★★★	★★★★★★	★☆
<b>PP50 TOP CLEAR</b>	A clear bi-axially oriented, polypropylene film with a print-receptive topcoat.	48 g/m <sup>2</sup>	42 µm	★★★★★★	★★★★★	★★
<b>Polypropylene (PP) - Metalized</b>						
<b>PP50 METALISED SILVER</b>	A top coated, metalized silver BOPP with high mechanical strength and good dimensional stability.	43g/m <sup>2</sup>	48 µm	★★★★★	★★★★★☆	★★

# PRIMAX® PLUS

## Machine Direction Oriented (MDO) - White

A white, satin finished, machine direction oriented, corona-treated polyolefin film

**Basis Weight**

75 g/m<sup>2</sup>

**Thickness**

75 µm

**Applications**

Home & personal care, semi-squeeze applications, tube labelling

**Features**

- ▶ Due to its flexibility the product is especially suitable for semi-squeezable bottles and other semi-flexible containers.
- ▶ The clear, white finished film blends well into matt plastic containers. To obtain a high gloss the label can be over varnished
- ▶ The film has a machine direction orientation (MDO) which offers exceptional dimensional stability and allows cross directional conformability.

**Printing & Converting**

- ▶ The engineered print skin can be printed by conventional printing techniques including flexo, screen, offset, letterpress, silkscreen, gravure, and hot or cold foiling processes. UV, water-based and solvent-based inks can be used.
- ▶ On-press corona treatment is recommended for optimum ink adhesion.
- ▶ Suitable for Thermal Transfer printing.
- ▶ Exact inks, foils and ribbons should be specified by your ink/foil/ribbon supplier.
- ▶ The material has excellent register properties especially when a high number of different colours are used.
- ▶ In circumstances where high scuff resistance is required, overvarnish of the printed labels is advised

**Quick Compare Guide**

Printability	★★★★
Stiffness	★★★
Conformability	★★★★★

# PE85 TOP WH

Polyethylene (PE) - White

A white polyethylene film with a print-receptive topcoat.

**Basis Weight**

82 g/m<sup>2</sup>

**Thickness**

82 µm

**Applications**

Home & personal care, high squeeze applications, tube labelling

**Features**

- ▶ Due to its flexibility the product is especially suitable for squeezable bottles and other flexible containers

**Printing & Converting**

- ▶ The modified acrylic based topcoating can be printed by conventional printing techniques including flexo, screen, offset, letterpress, silkscreen, gravure, and hot or cold foiling processes. UV, water-based and solvent-based inks can be used.
- ▶ The topcoat is designed for optimum ink adhesion.
- ▶ On-press corona treatment is not advised.
- ▶ The face material is suitable for Thermal Transfer printing.
- ▶ Exact inks, foils and ribbons should be specified by your ink/foil/ribbon supplier

**Quick Compare Guide**

Printability	★★★★★
Stiffness	★★
Conformability	★★★★★

# PE100 TOP WH

Polyethylene (PE) - White

A white polyethylene film with a print-receptive topcoat.

**Basis Weight**

92 g/m<sup>2</sup>

**Thickness**

93 µm

**Applications**

Home & personal care, squeeze applications, industrial, lubricant oil

**Features**

- ▶ A robust film, allowing reliable dispensing of large labels and complex label shapes
- ▶ Due to its flexibility the product is especially suitable for squeezable bottles and other flexible containers.

**Printing & Converting**

- ▶ The modified acrylic based topcoating can be printed by conventional printing techniques including flexo, screen, offset, letterpress, silkscreen, gravure, and hot or cold foiling processes. UV, water-based and solvent-based inks can be used.
- ▶ The topcoat is designed for optimum ink adhesion.
- ▶ On-press corona treatment is not advised.
- ▶ The face material is suitable for Thermal Transfer printing.
- ▶ Exact inks, foils and ribbons should be specified by your ink/foil/ribbon supplier

**Quick Compare Guide**

Printability	★★★★★
Stiffness	★★
Conformability	★★★★

# PE85 TOP CL

Polyethylene (PE) - Clear

A clear polyethylene film with a print-receptive topcoat.

**Basis Weight**

84 g/m<sup>2</sup>

**Thickness**

82 µm

**Applications**

Home & personal care, high squeeze applications, tube labelling

**Features**

- ▶ Due to its flexibility the product is especially suitable for squeezable bottles and other flexible containers

**Printing & Converting**

- ▶ The modified acrylic based topcoating can be printed by conventional printing techniques including flexo, screen, offset, letterpress, silkscreen, gravure, and hot or cold foiling processes. UV, water-based and solvent-based inks can be used.
- ▶ The topcoat is designed for optimum ink adhesion.
- ▶ On-press corona treatment is not advised.
- ▶ The face material is suitable for Thermal Transfer printing.
- ▶ Exact inks, foils and ribbons should be specified by your ink/foil/ribbon supplier

**Quick Compare Guide**

Printability	★★★★★
Stiffness	★★
Conformability	★★★★★



# PP60 TOP WHITE

## Polypropylene (PP) - White

A white bi-axially oriented, polypropylene film with a print-receptive topcoat.

### Basis Weight

59 g/m<sup>2</sup>

### Thickness

57 µm

### Applications

Suitable for cosmetics, personal care, household chemicals, food, beverage, dairy

### Features

- ▶ Applications are predominantly in market segments where rigid containers are used (e.g. Glass, PET). Due to fairly rigid nature of the film care should be taken with use on non-uniform surfaces and where a very high level of squeezability is desired.
- ▶ Suitable for applications requiring durability and resistance to moisture and chemicals

### Printing & Converting

- ▶ The modified acrylic based topcoating can be printed by conventional printing techniques including flexo, screen, offset, letterpress, silkscreen, gravure, and hot or cold foiling processes. UV, water-based and solvent-based inks can be used.
- ▶ The topcoat is designed for optimum ink adhesion.
- ▶ On-press corona treatment is not advised.
- ▶ The face material is suitable for Thermal Transfer printing. Exact inks, foils and ribbons should be specified by your ink/foil/ribbon supplier.
- ▶ The material has excellent register properties especially when a high number of different colours are used.

### Quick Compare Guide

Printability	★★★★★
Stiffness	★★★★★
Conformability	★★

# PP60 TOP WHITE CAVITATED

Polypropylene (PP) - White

A bi-axially oriented glossy, pearlized white polypropylene film with a print-receptive coating

**Basis Weight**

43 g/m<sup>2</sup>

**Thickness**

58 µm

**Applications**

Suitable for cosmetics, personal care, household chemicals, food, beverage, dairy, promotional

**Features**

- ▶ Typical applications include labels for rigid containers or where durability and resistance to moisture and chemicals are required.
- ▶ Due to the nature of the film, care should be taken with use on non-uniform surfaces and where a high level of squeezeability is required.

**Printing & Converting**

- ▶ Can be printed by flexo, screen and UV letterpress giving good results with solvent, UV and water based inks.
- ▶ Good acceptance of hot foil blocking. Good conversion characteristics in rotary and flatbed presses

**Quick Compare Guide**

Printability	★★★★★
Stiffness	★★★★☆
Conformability	★★



# PP60 TOP CLEAR

## Polypropylene (PP) - Clear

A clear bi-axially oriented, polypropylene film with a print-receptive topcoat.

### Basis Weight

52 g/m<sup>2</sup>

### Thickness

58 µm

### Applications

Suitable for cosmetics, personal care, household chemicals, food, beverage, dairy, promotional

### Features

- ▶ Applications are predominantly in market segments where rigid containers are used (e.g. Glass, PET). Due to fairly rigid nature of the film care should be taken with use on non-uniform surfaces and where a very high level of squeezability is desired
- ▶ For optimal dispensing a relatively high tension on the backing paper and a sharp beak are recommended.

### Printing & Converting

- ▶ The modified acrylic based topcoating can be printed by conventional printing techniques including flexo, screen, offset, letterpress, silkscreen, gravure, and hot or cold foiling processes. UV, water-based and solvent-based inks can be used.
- ▶ The topcoat is designed for optimum ink adhesion.
- ▶ On-press corona treatment is not advised.
- ▶ The face material is suitable for Thermal Transfer printing. Exact inks, foils and ribbons should be specified by your ink/foil/ribbon supplier.
- ▶ The material has excellent register properties especially when a high number of different colours are used.

### Quick Compare Guide

Printability	★★★★★
Stiffness	★★★★★
Conformability	★☆

# PP50 TOP CLEAR

## Polypropylene (PP) - Clear

A clear bi-axially oriented, polypropylene film with a print-receptive topcoat.

### Basis Weight

48 g/m<sup>2</sup>

### Thickness

42 µm

### Applications

Suitable for cosmetics, personal care, household chemicals, food, beverage, dairy, promotional

### Features

- ▶ Typical applications include labels for rigid containers requiring durability and resistance to moisture and chemicals.
- ▶ The product is especially suitable for situations requiring a no label look.
- ▶ Due to the nature of the film, care should be taken with use on non-uniform surfaces and where a high level of squeezability is required.

### Printing & Converting

- ▶ Can be printed by flexo, screen and UV letterpress giving good results with solvent, UV and water based inks.
- ▶ The film is specially engineered to be receptive to a variety of thermal transfer ribbons. It has excellent press register stability.
- ▶ Care should be taken with use of heat for drying or UV curing

### Quick Compare Guide

Printability	★★★★★
Stiffness	★★★★
Conformability	★★

# PP50 METALISED SILVER

## Polypropylene (PP) - Metalized

A top coated, metalized silver BOPP with high mechanical strength and good dimensional stability.

### Basis Weight

43g/m<sup>2</sup>

### Thickness

48 µm

### Applications

Wine, spirits, beverages, food, cosmetics, personal care & luxury items

### Features

- ▶ Premium silver gloss film for a superb 'mirror effect'
- ▶ Typical applications include labels for rigid containers requiring durability and resistance to moisture and chemicals.
- ▶ Due to the fairly rigid nature of the film care should be taken with use on non-uniform surfaces and where a very high level of squeeze ability is desired.

### Printing & Converting

- ▶ Can be die-cut and stripped at high speeds due to its top coating.
- ▶ Can be printed by flexo, screen and UV letterpress giving good results with, UV based inks.
- ▶ Has excellent press register stability.
- ▶ Care should be taken with use of heat for drying or UV curing.

### Quick Compare Guide

Printability	★★★★
Stiffness	★★★★☆
Conformability	★★

# VI Paper

		<u>Basis Weight</u>	<u>Thickness</u>	<u>Print Definition</u>	<u>Print Durability</u>
<b>Direct Thermal</b>					
<b>DIRECT THERMAL TC S8 FSC</b>	An FSC certified white woodfree, thermal coated paper, with a top and backside protective coating.	74 g/m <sup>2</sup>	74 µm	★★★★★	★★★★★
<b>DIRECT THERMAL TC FSC</b>	An FSC certified, BPA free smooth, bright white wood free paper with heat sensitive coating and a moisture resistant top coat.	75 g/m <sup>2</sup>	81 µm	★★★★★	★★★★★
<b>DIRECT THERMAL TC</b>	A BPA free, smooth, bright white wood free paper with heat sensitive coating and a moisture resistant top coat.	75 g/m <sup>2</sup>	81 µm	★★★★★	★★★★★
<b>DIRECT THERMAL FSC</b>	An FSC certified smooth, bright white wood free paper with heat sensitive coating and a moisture resistant top coat.	60 g/m <sup>2</sup>	53 µm	★★★★★	★★★★★
<b>DIRECT THERMAL TC 65</b>	A lightweight, BPA free, smooth, bright white wood free paper with heat sensitive coating and a moisture resistant top coat.	60 g/m <sup>2</sup>	62 µm	★★★★☆	★★★★☆
<b>DT200HD PLUS TC FSC</b>	An FSC certified white woodfree, thermal coated paper, with a top and backside protective coating.	75 g/m <sup>2</sup>	81 µm	★★★★★★	★★★★★★
<b>DIRECT THERMAL NTC FSC</b>	A FSC certified white, woodfree printing paper with a high sensitivity thermal coating providing good image resolution	74g/m <sup>2</sup>	79µm	★★★	★★
<b>ECONOMY THERMAL</b>	A white, woodfree printing paper with a high sensitivity thermal coating providing good image resolution	78 g/m <sup>2</sup>	82 µm	★★★	★★
<b>Thermal Transfer</b>					
<b>FASTRANSFER ULTRA</b>	A coated matt white wood free printing paper with a smooth micro absorbent surface structure to give high quality thermal transfer performance.	62 g/m <sup>2</sup>	66 µm	★★★★★★	★★★★★☆
<b>FASTRANSFER STANDARD</b>	A white super calendered surface sized wood free printing paper.	70 g/m <sup>2</sup>	71 µm	★★★★★	★★★★★
<b>Laser/Inkjet Paper</b>					
<b>LASERPRO 70</b>	A matte white woodfree machine paper.	64 g/m <sup>2</sup>	77 µm	★★★★★	★★★★★☆
<b>GLOSS IJ PAPER</b>	A white, high-gloss paper specially engineered for use in on-demand inkjet printers.	88 g/m <sup>2</sup>	106 µm	★★★★★★	★★★★★☆

# DIRECT THERMAL TC S8 FSC

## Direct Thermal

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An FSC certified white woodfree, thermal coated paper, with a top and backside protective coating.

### Basis Weight

74 g/m<sup>2</sup>

### Thickness

74 µm



### Quick Compare Guide

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Print Definition	★★★★
Print Durability	★★★★

### Applications

Retail, deli, wet meat-packing, cryovac food, freeze-thaw (meat and fish), cheese, industrial barcoding and tracking

### Features

- ▶ The top and back protective coating provide excellent resistance to moisture, fat, oil, alcohol, etc.
- ▶ Designed for use in pre-packed food wet applications where excellent resistance to oil, water and plasticizer over an extended period is required.
- ▶ Continuous exposure to an assortment of chemicals or continuous wet immersion will eventually cause image fading.
- ▶ FSC certified

### Printing & Converting

- ▶ The product can be converted by all conventional roll conversion technologies including flexographic and UV letterpress.
- ▶ Due to the thermographic properties, exposure above 50°C may cause premature imaging or discoloration.
- ▶ It is advisable to test inks and varnishes before conversion.
- ▶ It is generally recommended not to pre-print the label area that needs to be thermally printed.



# DIRECT THERMAL TC FSC

## Direct Thermal

---

An FSC certified, BPA free smooth, bright white wood free paper with heat sensitive coating and a moisture resistant top coat.

### Basis Weight

75 g/m<sup>2</sup>

### Thickness

81 µm



### Quick Compare Guide

Print Definition	★★★★
Print Durability	★★★★

### Applications

Retail, deli, pre-packed food e.g. meat, fish, poultry, cheese, and industrial barcoding e.g. tracking, shelf edge, laboratory, hospital

### Features

- ▶ The ink receptive and protective layer provide good ink receptivity and good resistance to moisture, fat, oil etc.
- ▶ Continuous exposure to an assortment of chemicals or continuous wet immersion will eventually cause image fading.
- ▶ This product is produced without the use of BPA.
- ▶ FSC certified

### Printing & Converting

- ▶ The product can be converted by all conventional roll conversion technologies including flexographic and UV letterpress.
- ▶ Due to the thermographic properties, exposure above 50°C may cause premature imaging or discoloration.
- ▶ It is advisable to test inks and varnishes before conversion.
- ▶ It is generally recommended not to pre-print the label area that needs to be thermally printed.

# DIRECT THERMAL TC

## Direct Thermal

---

A BPA free, smooth, bright white wood free paper with heat sensitive coating and a moisture resistant top coat.

### Basis Weight

75 g/m<sup>2</sup>

### Thickness

81 µm

### Quick Compare Guide

Print Definition	★★★★
Print Durability	★★★★

### Applications

Retail, deli, pre-packed food e.g. meat, fish, poultry, cheese, and industrial barcoding e.g. tracking, shelf edge, laboratory, hospital

### Features

- ▶ The ink receptive and protective layer provide good ink receptivity and good resistance to moisture, fat, oil etc.
- ▶ Continuous exposure to an assortment of chemicals or continuous wet immersion will eventually cause image fading.
- ▶ This product is produced without the use of BPA.

### Printing & Converting

- ▶ The product can be converted by all conventional roll conversion technologies including flexographic and UV letterpress.
- ▶ Due to the thermographic properties, exposure above 50°C may cause premature imaging or discoloration.
- ▶ It is advisable to test inks and varnishes before conversion.
- ▶ It is generally recommended not to pre-print the label area that needs to be thermally printed.



# DIRECT THERMAL FSC

## Direct Thermal

An FSC certified smooth, bright white wood free paper with heat sensitive coating and a moisture resistant top coat.

**Basis Weight**

60 g/m<sup>2</sup>

**Thickness**

53 µm



**Quick Compare Guide**

Print Definition	★★★★
Print Durability	★★★★

**Applications**

Retail, deli, pre-packed food e.g. meat, fish, poultry, cheese, and industrial barcoding e.g. tracking, shelf edge, laboratory, hospital

**Features**

- ▶ The ink receptive and protective layer provide good ink receptivity and good resistance to moisture, fat, oil etc.
- ▶ Continuous exposure to an assortment of chemicals or continuous wet immersion will eventually cause image fading.
- ▶ This product is produced without the use of BPA.
- ▶ FSC certified

**Printing & Converting**

- ▶ The product can be converted by all conventional roll conversion technologies including flexographic and UV letterpress.
- ▶ Due to the thermographic properties, exposure above 50°C may cause premature imaging or discoloration.
- ▶ It is advisable to test inks and varnishes before conversion.
- ▶ It is generally recommended not to pre-print the label area that needs to be thermally printed.

# DIRECT THERMAL TC 65

## Direct Thermal

A lightweight, BPA free, smooth, bright white wood free paper with heat sensitive coating and a moisture resistant top coat.

### Basis Weight

60 g/m<sup>2</sup>

### Thickness

62 µm

### Applications

Retail, deli, pre-packed food e.g. meat, fish, poultry, cheese, and industrial barcoding e.g. tracking, shelf edge, laboratory, hospital

### Features

- ▶ The thinner construction provides good mandrel performance as well as offering more labels per roll for improved efficiency in mobile and desk-top printers
- ▶ The ink receptive and protective layer provide good ink receptivity and good resistance to moisture, fat, oil etc.
- ▶ Continuous exposure to an assortment of chemicals or continuous wet immersion will eventually cause image fading.
- ▶ This product is produced without the use of BPA.

### Printing & Converting

- ▶ The product can be converted by all conventional roll conversion technologies including flexographic and UV letterpress.
- ▶ Due to the thermographic properties, exposure above 50°C may cause premature imaging or discoloration.
- ▶ It is advisable to test inks and varnishes before conversion.
- ▶ It is generally recommended not to pre-print the label area that needs to be thermally printed.

### Quick Compare Guide

Print Definition	★★★☆
Print Durability	★★★☆

# DT200HD PLUS TC FSC

## Direct Thermal

An FSC certified white woodfree, thermal coated paper, with a top and backside protective coating.

### Basis Weight

75 g/m<sup>2</sup>

### Thickness

81 µm



### Quick Compare Guide

Print Definition	★★★★★
Print Durability	★★★★★

### Applications

Retail, deli, wet meat-packing, cryovac food, freeze-thaw (meat and fish), cheese, industrial barcoding and tracking

### Features

- ▶ The top and back protective coating provide excellent resistance to moisture, fat, oil, alcohol, etc.
- ▶ Designed for use in pre-packed food wet applications where excellent resistance to oil, water and plasticizer over an extended period is required.
- ▶ Continuous exposure to an assortment of chemicals or continuous wet immersion will eventually cause image fading.
- ▶ FSC certified

### Printing & Converting

- ▶ The product can be converted by all conventional roll conversion technologies including flexographic and UV letterpress.
- ▶ Due to the thermographic properties, exposure above 50°C may cause premature imaging or discoloration.
- ▶ It is advisable to test inks and varnishes before conversion.
- ▶ It is generally recommended not to pre-print the label area that needs to be thermally printed.

# DIRECT THERMAL NTC FSC

## Direct Thermal

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A FSC certified white, woodfree printing paper with a high sensitivity thermal coating providing good image resolution

**Basis Weight**  
74g/m<sup>2</sup>

**Thickness**  
79µm



### Quick Compare Guide

Print Definition	★★★
Print Durability	★★

### Applications

Warehouse logistics and address labelling, dry in-store weigh scale, bakery, non-food items in retail stores (e.g. magazines)

### Features

- ▶ This Direct Thermal product is designed for use in environments where limited image durability is required.
- ▶ Contact with moisture, oil, fats, plasticizers and exposure to strong lighting should be avoided due to potential image fade.
- ▶ FSC certified

### Printing & Converting

- ▶ This product is designed to be converted and dispensed at high speed by all conventional roll conversion technologies, including flexographic and UV letterpress.
- ▶ Due to the thermographic properties, exposure above 50°C may cause premature imaging or discolouration.
- ▶ Inks containing alcohol or volatile organic solvents may also cause discoloration. It is advisable to test inks and varnishes before conversion.
- ▶ It is generally recommended not to pre-print the area which will bethermally imaged.

# ECONOMY THERMAL

## Direct Thermal

A white, woodfree printing paper with a high sensitivity thermal coating providing good image resolution

### Basis Weight

78 g/m<sup>2</sup>

### Thickness

82 µm

### Applications

Warehouse logistics and address labelling, dry in-store weigh scale, bakery, non-food items in retail stores (e.g. magazines)

### Features

- ▶ This Direct Thermal product is designed for use in environments where limited image durability is required.
- ▶ Contact with moisture, oil, fats, plasticizers and exposure to strong lighting should be avoided due to potential image fade.

### Printing & Converting

- ▶ This product is designed to be converted and dispensed at high speed by all conventional roll conversion technologies, including flexographic and UV letterpress.
- ▶ Due to the thermographic properties, exposure above 50°C may cause premature imaging or discolouration.
- ▶ Inks containing alcohol or volatile organic solvents may also cause discoloration. It is advisable to test inks and varnishes before conversion.
- ▶ It is generally recommended not to pre-print the area which will bethermally imaged.

### Quick Compare Guide

Print Definition	★★★
Print Durability	★★



# FASTRANSFER ULTRA

## Thermal Transfer

A coated matt white wood free printing paper with a smooth micro absorbent surface structure to give high quality thermal transfer performance.

### Basis Weight

62 g/m<sup>2</sup>

### Thickness

66 µm

### Applications

Warehouse logistics, identification & tracking labels in offices hospitals & libraries, in-store weigh scale & retail (e.g. magazines)

### Features

- ▶ Offers superior environmental resistance and image durability compared to Avery Dennison's Direct Thermal papers
- ▶ Designed to provide excellent Thermal Transfer printing and good smudge resistance with a wide range of both wax based and resin/wax based TT printing ribbons.

### Printing & Converting

- ▶ The surface of this paper is specially suited for single or multicolour line process printing by Letterpress, Offset, Flexo, Screen, Hot Foil and Thermal Transfer.
- ▶ Offers superior print characteristics where a gloss surface finish is not required.

### Quick Compare Guide

Print Definition	★★★★★
Print Durability	★★★★☆



# FASTRANSFER STANDARD

## Thermal Transfer

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A white super calendered surface sized wood free printing paper.

### Basis Weight

70 g/m<sup>2</sup>

### Thickness

71 µm

### Applications

Warehouse logistics, identification & tracking labels in offices hospitals & libraries, in-store weigh scale & retail (e.g. magazines)

### Features

- ▶ Offers superior environmental resistance and image durability compared to Avery Dennison's Direct Thermal papers
- ▶ Designed to provide good Thermal Transfer printing and good smudge resistance with a wide range of both wax based and resin/wax based TT printing ribbons.

### Printing & Converting

- ▶ The surface of this paper is specially suited for single or multicolour line process printing by Letterpress, Offset, Flexo, Screen, Hot Foil and Thermal Transfer.
- ▶ Offers good print characteristics where a gloss surface finish is not required.

### Quick Compare Guide

Print Definition	★★★★
Print Durability	★★★★

# LASERPRO 70

## Laser/Inkjet Paper

A matte white woodfree machine paper.

### Basis Weight

64 g/m<sup>2</sup>

### Thickness

77 µm

### Applications

A4 sheets for home office, office, instruction, inventory and address labels

### Features

- ▶ Designed for the manufacture of A4 sheets for use in high speed sheet-fed laser printers and copiers.
- ▶ Also suitable for monochrome inkjet printing
- ▶ Ideal for label applications using variable information such as address, instruction and inventory labels, labels for office use and many other applications
- ▶ Suitable for use in photocopiers, laser and inkjet printers for domestic and commercial applications.
- ▶ Exhibits good opacity, excellent absorption and superior toner bonding characteristics.

### Printing & Converting

- ▶ Can be converted by the conventional roll-to-sheet conversion technologies.
- ▶ The facestock's surface structure provides excellent toner bonding and print

### Quick Compare Guide

Print Definition	★★★★
Print Durability	★★★★☆

# GLOSS IJ PAPER

## Laser/Inkjet Paper

A white, high-gloss paper specially engineered for use in on-demand inkjet printers.

### Basis Weight

88 g/m<sup>2</sup>

### Thickness

106 μm

### Applications

Primary and secondary packaging labels in retail, manufacturing, healthcare, and logistics

### Features

- ▶ An ideal choice for printing labels in on-demand-color inkjet printers, where full process color is used to add impact and/or functionality to the label.
- ▶ The high ink hold out and quick drying provide for excellent clarity and density of printed graphics

### Printing & Converting

- ▶ The product is designed to be converted and by all conventional converting technologies.

### Quick Compare Guide

Print Definition	★★★★★
Print Durability	★★★★☆

# VI Film

		<u>Basis Weight</u>	<u>Thickness</u>	<u>Printability</u>	<u>Stiffness</u>	<u>Conformability</u>	<u>Durability</u>
<b>Synthetic Paper</b>							
<b>TTP MATT WHITE</b>	A matte white biaxially oriented polypropylene film suitable for thermal transfer printing	62 g/m <sup>2</sup>	75 µm	★★★★★	★★★★☆	★★	★★★★★
<b>Polyester (PET) - White</b>							
<b>TRANSFER PET50 WH</b>	A gloss white polyester film with a 'print treated' surface for enhanced ink adhesion.	68 g/m <sup>2</sup>	50 µm	★★★★☆	★★★★★	-	★★★★★★
<b>Polyethylene (PE) - White</b>							
<b>TRANSFER PE HD</b>	A matt white polyethylene film with a smooth, absorbent, ink receptive topcoating.	90 g/m <sup>2</sup>	110 µm	★★★★★	★★	★★★★★	★★★★★
<b>SYNTEX</b>	A matt white high-density polyethylene (HDPE) film with a smooth, absorbent, ink receptive topcoating	90 g/m <sup>2</sup>	110 µm	★★★★★	★★	★★★	★★★★★
<b>Laser/Inkjet Film</b>							
<b>100um IJ SYN PAPER</b>	A matte white inkjet synthetic paper material with a highly absorbent surface structure specifically designed for on demand color inkjet printers	69 g/m <sup>2</sup>	100 µm	★★★★★★	★★★★	★★★	★★★★★

# TTP MATT WHITE

## Synthetic Paper

A matte white biaxially oriented polypropylene film suitable for thermal transfer printing

### Basis Weight

62 g/m<sup>2</sup>

### Thickness

75 µm

### Applications

Cosmetics, home and personal care, automotive lubricants and household chemicals

### Features

- ▶ Smooth matte appearance for optimum printability
- ▶ Applications are predominantly in applications requiring durability and resistance to moisture and chemicals with visual match to matte finished containers.

### Printing & Converting

- ▶ Gives excellent printing performance in thermal transfer printing as well as conventional printing techniques.
- ▶ Can be printed well with flexographic, letterpress and screen printing techniques.
- ▶ Can also be printed with thermal transfer when matched with the correct ribbon. Careful selection of ribbon and preliminary testing is essential. In case solvent screen inks are used, please consult your ink manufacturer.

### Quick Compare Guide

Printability	★★★★
Stiffness	★★★☆
Conformability	★★
Durability	★★★★

# TRANSFER PET50 WH

Polyester (PET) - White

A gloss white polyester film with a 'print treated' surface for enhanced ink adhesion.

**Basis Weight**

68 g/m<sup>2</sup>

**Thickness**

50 µm

**Applications**

Durable & outdoor applications, identification labels, rating plates, work in progress (WIP) labels and asset tags

**Features**

▶ For use in 'durable' applications where heat, solvent resistance, barrier properties or long service life are required.

**Printing & Converting**

- ▶ Can be printed by flexo, letterpress, gravure and screen with solvent / UV curing / water based inks.
- ▶ Resin based thermal transfer ribbons recommended
- ▶ Overlamination after printing can improve durability.
- ▶ Sharp, hardened dies needed to cut through the polyester face material. Stiffness of face material gives good automatic dispenser properties.

**Quick Compare Guide**

Printability	★★★★☆
Stiffness	★★★★★
Conformability	-
Durability	★★★★★★



# TRANSFER PE HD

## Polyethylene (PE) - White

A matt white polyethylene film with a smooth, absorbent, ink receptive topcoating.

### Basis Weight

90 g/m<sup>2</sup>

### Thickness

110 µm

### Applications

Durable & outdoor applications, chemical drum labels, stretch and shrink wrapped pallet labels

### Features

- ▶ Smooth matte appearance for optimum printability
- ▶ Applications include medium life durable tracking labels in outdoor environments
- ▶ Provides some conformability for non-uniform substrates such as chemical drums
- ▶ This product complies with the materials section of BS5609 Part2 (Marine Performance Test).
- ▶ Purchasers should independently determine the compliance or otherwise of the ink and print process involved in the production of labels to the British standard.

### Printing & Converting

- ▶ The absorbent top-coat provides a 'paper like' surface for conventional preprinting.
- ▶ Due to the extensible nature of the face care should be taken with die specification. Sharp dies are essential.
- ▶ Material shows very good register stability on press and flat bed conversion while rotary and magnetic dies need additional care.

### Quick Compare Guide

Printability	★★★★
Stiffness	★★
Conformability	★★★★
Durability	★★★★

# SYNTEX

## Polyethylene (PE) - White

A matt white high-density polyethylene (HDPE) film with a smooth, absorbent, ink receptive topcoating

### Basis Weight

90 g/m<sup>2</sup>

### Thickness

110 µm

### Quick Compare Guide

Printability	★★★★
Stiffness	★★
Conformability	★★★
Durability	★★★★

### Applications

Durable & outdoor applications, LDPE & chemical drums, stretch and shrink wrapped pallet labels, timber, rough metal castings

### Features

- ▶ Smooth matte appearance for optimum printability
- ▶ Designed for use in very difficult application areas i.e. where surface is very rough and hence initial adherence surface contact is low.
- ▶ Provides conformability for non-uniform substrates such as chemical drums
- ▶ Labels are often pre-printed, then overprinted with variable information at time of application.
- ▶ This product complies with the materials section of BS5609 Part2 (Marine Performance Test). Purchasers should independently determine the compliance or otherwise of the ink and print process involved in the production of labels to the British standard.

### Printing & Converting

- ▶ The absorbent top-coat provides a 'paper like' surface for conventional preprinting.
- ▶ Due to the extensible nature of the face care should be taken with die specification. Sharp dies are essential.
- ▶ Material shows very good register stability on press and flat bed conversion while rotary and magnetic dies need additional care.

# 100um IJ SYN PAPER

## Laser/Inkjet Film

A matte white inkjet synthetic paper material with a highly absorbent surface structure specifically designed for on demand color inkjet printers

### Basis Weight

69 g/m<sup>2</sup>

### Thickness

100 μm

### Applications

Primary and secondary packaging labels in retail, manufacturing, healthcare, and logistics

### Features

- ▶ Designed for printing labels in on-demand-color inkjet printers, such as Epson TM-C 3520 and Memjet inkjet printing platforms, where full process color is used to add impact and/or functionality to the label.
- ▶ The high ink holdout and quick drying provide for excellent clarity and density of printed graphics





### Printing & Converting

- ▶ The product is designed to be converted and by all conventional converting technologies.

### Quick Compare Guide

Printability	★★★★★
Stiffness	★★★
Conformability	★★★
Durability	★★★★★

# Wine

			<u>Basis Weight</u>	<u>Thickness</u>	<u>Wet Opacity</u>	<u>Dry Opacity</u>
<b>Cast Coated</b>						
	<b>CAST GLOSS PREMIUM</b>	A premium quality, white one-side cast coated paper exhibiting a superior gloss white finish.	89 g/m <sup>2</sup>	86 µm	★★★★★	★★★
<b>Synthetic Paper</b>						
	<b>FASSON CHILLER</b>	A matt white, smooth synthetic paper with excellent moisture resistance.	74 g/m <sup>2</sup>	54 µm	★★★★★★	★★★★★★
<b>Uncoated Paper</b>						
	 <b>ESTATE #8 FSC</b>	An FSC certified white vellum uncoated paper facestock	90 g/m <sup>2</sup>	127 µm	★★	★★★★★
<b>Specialty Paper</b>						
	<b>WHITE COTTON</b>	A white, uncoated matt 100% Cotton paper with a Unique 'Velvet finish' appearance. Wet strenght and fungicidal treatments.	120 g/m <sup>2</sup>	220 µm	★★★★★	★★★★★
	<b>RUSTIQUE EXTRA WHITE</b>	An FSC certified extra white, uncoated matt woddfree printing paper with feltmarked finish.	90 g/m <sup>2</sup>	135 µm	★★★★★	★★★
	<b>CANE FIBRE</b>	A white, uncoated matt woodfree printing paper made from 95% sugar cane fibers	90 g/m <sup>2</sup>	120 µm	★★★★★	★★★
	<b>LINEN</b>	An FSC certified white machine coated woodfree printing paper with a woven appearance.	90 g/m <sup>2</sup>	106 µm	★★★★★	★★★
	 <b>ANTIQUE CREME FSC</b>	An FSC certified cream uncoated, matt, laid watermarked, woodfree printingpaper with a tactile 'hand made' appearance and feel.	90 g/m <sup>2</sup>	108 µm	★★★★★	★★★
	 <b>BLACK PAPER NEW FSC</b>	An FSC certified full black, core tinted, uncoated matt paper	100 g/m <sup>2</sup>	130 µm	★★★★★	★★★★★
	 <b>MARTELE EXTRA WHITE FSC</b>	An FSC certified extra white, uncoated, matt woodfree printing paper with a'hammered' tactile embossed finish.	90 g/m <sup>2</sup>	130 µm	★★★★★	★★★★★
	<b>COTTON BLACK</b>	A Black, uncoated matt 100% cotton paper with a unique high texture appearance.	120 g/m <sup>2</sup>	220 µm	★★★★★	★★★★★
	<b>COTTON EXTRA WHITE</b>	A bright white, uncoated matt 100% cotton paper with a unique high texture appearance.	115 g/m <sup>2</sup>	220 µm	★★★★★	★★★★★

# CAST GLOSS PREMIUM

## Cast Coated

A premium quality, white one-side cast coated paper exhibiting a superior gloss white finish.

### Basis Weight

89 g/m<sup>2</sup>

### Thickness

86 µm

### Quick Compare Guide

Wet Opacity ★★★★★

Dry Opacity ★★

### Applications

Wine, spirits, craft beer, high end beverage, cosmetic, pharmaceutical, food, chemical products and promotional labels

### Features

- ▶ This product is suitable for a wide range of promotional and industrial labels whereby brilliant multicolour print quality and attractive gloss appearance are required.
- ▶ Good resistance to edge wicking
- ▶ Good opacity for labelling dark coloured wine bottles

### Printing & Converting

- ▶ Printable using all conventional label printing technologies including foil stamping.
- ▶ Suitable for conventional die-cutting processes - contact your die-consultant for details.
- ▶ Suitable for conventional inks and varnishes – contact your ink specialist for details.



# FASSON CHILLER

## Synthetic Paper

A matt white, smooth synthetic paper with excellent moisture resistance.

### Basis Weight

74 g/m<sup>2</sup>

### Thickness

54 µm

### Applications

Wine, spirits, craft beer, high end beverages, cosmetic, pharmaceutical, food

### Features

- ▶ Especially suited to wine label applications where moisture resistance is required. eg white wine labels.
- ▶ Gives matt appearance without need to use varnish for moisture protection.

### Printing & Converting

- ▶ Excellent print by all popular processes including foiling and thermal transfer.
- ▶ Over varnish gives gloss finish.
- ▶ Good die cutting and stripping with dies made for films.
- ▶ Care must be taken with drying temperatures.
- ▶ Roll labels loosely to minimise risk of edge bleed

### Quick Compare Guide

Wet Opacity	★★★★★
Dry Opacity	★★★★★



# ESTATE #8 FSC

## Uncoated Paper

An FSC certified white vellum uncoated paper facestock

### Basis Weight

90 g/m<sup>2</sup>

### Thickness

127 µm



### Quick Compare Guide

Wet Opacity	★★
Dry Opacity	★★★★

### Applications

Wine & spirits, high end food and beverage packaging

### Features

- ▶ Primary labelling of wine, beverage and specialist foods, best suited to dry application surface.
- ▶ Wet strength properties assist in retaining the strength of the paper fibres when exposed to moisture or wet environments
- ▶ Recommended for dry applications only, as there is no polymer coating on the reverse side
- ▶ FSC certified

### Printing & Converting

- ▶ Printable using all conventional label printing processes, however the textured nature of the facestock means that it is better suited to offset printing
- ▶ Can be further embellished using foil stamping and embossing. High levels of embossing could reduce adhesion/mandrel performance
- ▶ Labels must have a 3mm grain free zone measured from label edges
- ▶ This product is not recommended for applications where labels are exposed to direct sunlight or temperatures above 50°C
- ▶ Not recommended for neck labels or tight mandrel applications due to high stiffness.
- ▶ The use of over-varnish is essential to enhance surface water repellance
- ▶ Refer to Wine Technical Brochure for more PS application considerations

# WHITE COTTON

## Specialty Paper

A white, uncoated matt 100% Cotton paper with a Unique ‘Velvet finish’ appearance. Wet strength and fungicidal treatments.

### Basis Weight

120 g/m<sup>2</sup>

### Thickness

220 µm

### Applications

Wine & spirits, high end food and beverage packaging

### Features

- ▶ Produced from 100% cotton material giving a unique textured finish
- ▶ Contains wet strength and fungicidal treatments.
- ▶ Due to its high stiffness it is not recommended for labelling on small diameters, neck labels in particular.
- ▶ FSC certified

### Printing & Converting

- ▶ Printable by Offset, Screen, Hot Foil, given the nature of the material, printing and decoration techniques tests are highly recommended
- ▶ Can be further embellished using foil stamping and embossing. High levels of embossing could reduce adhesion/mandrel performance
- ▶ Labels must have a 3mm grain free zone measured from label edges
- ▶ Not recommended for neck labels or tight mandrel applications due to high stiffness.
- ▶ Refer to Wine Technical Brochure for more PS application considerations

### Quick Compare Guide

Wet Opacity	★★★★
Dry Opacity	★★★★

# RUSTIQUE EXTRA WHITE

## Specialty Paper

An FSC certified extra white, uncoated matt woddfree printing paper with feltmarked finish.

### Basis Weight

90 g/m<sup>2</sup>

### Thickness

135 µm

### Applications

Wine & spirits, high end food and beverage packaging

### Features

- ▶ Contains wet strength and fungicidal treatments.
- ▶ Due to its high stiffness it is not recommended for labelling on small diameters, neck labels in particular.
- ▶ FSC certified

### Printing & Converting

- ▶ Printable by all conventional printing techniques.
- ▶ Due to the open and textured nature of the face material, best results are in general from those techniques with maximum conformability of printing plate such as flexo and offset. Excellent results, in line with desired image, using offset or screen.
- ▶ Refer to Wine Technical Brochure for more PS application considerations

### Quick Compare Guide

Wet Opacity	★★★★
Dry Opacity	★★

# CANE FIBRE

## Specialty Paper

A white, uncoated matt woodfree printing paper made from 95% sugar cane fibers

### Basis Weight

90 g/m<sup>2</sup>

### Thickness

120 µm

### Quick Compare Guide

Wet Opacity ★★★★★

Dry Opacity ★★

### Applications

Wine & spirits, high end food and beverage packaging

### Features

- ▶ Made from 95% of sugar cane fibers and 5% of hemp and linen. Use of by-products from the transformation of sugar cane (bagasse)
- ▶ Contains wet strength and fungicidal treatments.
- ▶ Due to its high stiffness it is not recommended for labelling on small diameters, neck labels in particular.
- ▶ FSC certified

### Printing & Converting

- ▶ Printable by all conventional printing techniques. Due to open and textured nature of the facematerial, best results are in general from those techniques with maximum conformability of printing plate such as flexo and offset. Excellent results, in line with desired image, using offset or screen.
- ▶ Labels must have a 3mm grain free zone measured from label edges
- ▶ Not recommended for neck labels or tight mandrel applications due to high stiffness.
- ▶ Refer to Wine Technical Brochure for more PS application considerations

# LINEN

## Specialty Paper

An FSC certified white machine coated woodfree printing paper with a woven appearance.

### Basis Weight

90 g/m<sup>2</sup>

### Thickness

106 µm

### Quick Compare Guide

Wet Opacity	★★★★
Dry Opacity	★★

### Applications

Wine & spirits, high end food and beverage packaging

### Features

- ▶ Contains wet strength and fungicidal treatments.
- ▶ Due to its high stiffness it is not recommended for labelling on small diameters, neck labels in particular.
- ▶ FSC certified

### Printing & Converting

- ▶ Printable by all conventional printing techniques. Due to open and textured nature of the facematerial, best results are in general from those techniques with maximum conformability of printing plate such as flexo and offset. Excellent results, in line with desired image, using offset or screen.
- ▶ Labels must have a 3mm grain free zone measured from label edges
- ▶ Not recommended for neck labels or tight mandrel applications due to high stiffness.
- ▶ Refer to Wine Technical Brochure for more PS application considerations



# ANTIQUÉ CREME FSC

## Specialty Paper

An FSC certified cream uncoated, matt, laid watermarked, woodfree printingpaper with a tactile ‘hand made’ appearance and feel.

**Basis Weight**

90 g/m<sup>2</sup>

**Thickness**

108 µm



**Quick Compare Guide**

Wet Opacity	★★★★
Dry Opacity	★★

**Applications**

Wine & spirits, high end food and beverage packaging

**Features**

- ▶ This product is designed for Wine labelling, it is suitable for primary labelling of high and premium goods with an ‘old world’ image eg: spirits, specialist foods.
- ▶ Contains wet strength and fungicidal treatments.
- ▶ Due to its high stiffness it is not recommended for labelling on small diameters, neck labels in particular.
- ▶ FSC certified

**Printing & Converting**

- ▶ Printable by all conventional printing techniques. Due to open and textured nature of the facematerial, best results are in general from those techniques with maximum conformability of printing plate such as flexo and offset. Excellent results, in line with desired image, using offset or screen.
- ▶ Labels must have a 3mm grain free zone measured from label edges
- ▶ Not recommended for neck labels or tight mandrel applications due to high stiffness.
- ▶ Refer to Wine Technical Brochure for more PS application considerations

# BLACK PAPER NEW FSC

## Specialty Paper

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An FSC certified full black, core tinted, uncoated matt paper

### Basis Weight

100 g/m<sup>2</sup>

### Thickness

130 µm



### Quick Compare Guide

Wet Opacity	★★★★
Dry Opacity	★★★★

### Applications

Wine & spirits, high end food and beverage packaging

### Features

- ▶ Made from black paper to avoid white edges appearing on white labels printed black
- ▶ Contains wet strength and fungicidal treatments.
- ▶ Due to its high stiffness it is not recommended for labelling on small diameters, neck labels in particular.
- ▶ FSC certified

### Printing & Converting

- ▶ Printable by all conventional printing techniques. Due to open and textured nature of the face material, best results are in general from those techniques with maximum conformability of printing plate such as flexo and offset. Excellent results, in line with desired image, using offset or screen.
- ▶ Labels must have a 3mm grain free zone measured from label edges
- ▶ Not recommended for neck labels or tight mandrel applications due to high stiffness.
- ▶ Refer to Wine Technical Brochure for more PS application considerations

# MARTELE EXTRA WHITE FSC

## Specialty Paper

An FSC certified extra white, uncoated, matt woodfree printing paper with a ‘hammered’ tactile embossed finish.

**Basis Weight**

90 g/m<sup>2</sup>

**Thickness**

130 µm



**Quick Compare Guide**

Wet Opacity	★★★★
Dry Opacity	★★★★

**Applications**

Wine & spirits, high end food and beverage packaging

**Features**

- ▶ Contains wet strength and fungicidal treatments.
- ▶ Due to its high stiffness it is not recommended for labelling on small diameters, neck labels in particular.
- ▶ Due to its high stiffness it is not recommended for labelling on small diameters, neck labels in particular. Extra care should be taken in application phase
- ▶ FSC certified

**Printing & Converting**

- ▶ Printable by all conventional printing techniques. Due to open and textured nature of the face material, best results are in general from those techniques with maximum conformability of printing plate such as flexo and offset. Excellent results, in line with desired image, using offset or screen.
- ▶ Labels must have a 3mm grain free zone measured from label edges
- ▶ Not recommended for neck labels or tight mandrel applications due to high stiffness.
- ▶ Refer to Wine Technical Brochure for more PS application considerations

# COTTON BLACK

## Specialty Paper

A Black, uncoated matt 100% cotton paper with a unique high texture appearance.

### Basis Weight

120 g/m<sup>2</sup>

### Thickness

220 µm

### Quick Compare Guide

Wet Opacity ★★★★★

Dry Opacity ★★★★★

### Applications

Wine & spirits, high end food and beverage packaging

### Features

- ▶ Produced from 100% cotton material giving a unique textured finish
- ▶ Made from black paper to avoid white edges appearing on white labels printed black
- ▶ Contains wet strength and fungicidal treatments.
- ▶ Due to its high stiffness it is not recommended for labelling on small diameters, neck labels in particular.
- ▶ FSC certified

### Printing & Converting

- ▶ Printable by all conventional printing techniques. Due to open and textured nature of the face material, best results are in general from those techniques with maximum conformability of printing plate such as flexo and offset. Excellent results, in line with desired image, using offset or screen.
- ▶ Labels must have a 3mm grain free zone measured from label edges
- ▶ Not recommended for neck labels or tight mandrel applications due to high stiffness.
- ▶ Refer to Wine Technical Brochure for more PS application considerations

# COTTON EXTRA WHITE

## Specialty Paper

A bright white, uncoated matt 100% cotton paper with a unique high texture appearance.

### Basis Weight

115 g/m<sup>2</sup>

### Thickness

220 µm

### Applications

Wine & spirits, high end food and beverage packaging

### Features

- ▶ Produced from 100% cotton material giving a unique textured finish
- ▶ Contains wet strength and fungicidal treatments.
- ▶ Due to its high stiffness it is not recommended for labelling on small diameters, neck labels in particular.
- ▶ FSC certified

### Printing & Converting

- ▶ Printable by all conventional printing techniques. Due to open and textured nature of the face material, best results are in general from those techniques with maximum conformability of printing plate such as flexo and offset. Excellent results, in line with desired image, using offset or screen.
- ▶ Labels must have a 3mm grain free zone measured from label edges
- ▶ Not recommended for neck labels or tight mandrel applications due to high stiffness.
- ▶ Refer to Wine Technical Brochure for more PS application considerations

### Quick Compare Guide

Wet Opacity	★★★★
Dry Opacity	★★★★



# General Purpose

	<u>Adhesive Technology</u>	<u>Initial Tack</u>	<u>Ultimate Adhesion</u>	<u>Min. app. temp.</u>	<u>Service temp.</u>	<u>Applications</u>							<u>Substrate</u>						<u>Food</u>		
						Freezer	Chilled	Wet Surfaces	Tight Mandrel	Ice Bucket	Durable	Removable	Cardboard	Glass	PET	HDPE	LDPE	PP	Indirect	Direct	
<b>Permanent</b>																					
<b>S2045/N</b>	Rubber Based Hotmelt	High	Very High	0°C	-40°C to 70°C	T		T						T	●	●	T	●	●	●	●
<b>S2400</b>	Rubber Based Hotmelt	High	Very High	0°C	-40°C to 70°C	T		T							●	●			●		●
<b>S2060</b>	Rubber Based Hotmelt	High	Very High	5°C	-20°C to 70°C				T					●	●	●	●	●	●		●
<b>S1105</b>	Emulsion Acrylic	Medium	High	5°C	-20°C to 80°C										●	●			●		
<b>S2000/NG</b>	Emulsion Acrylic	High	High	0°C	-20°C to 50°C										●	●	●		●		●
<b>S1010</b>	Emulsion Acrylic	High	High	5°C	-20°C to 80°C				T					T	●	●	●		●		●
<b>S6112</b>	Emulsion Acrylic	Medium	Medium	5°C	-20°C to 80°C										●	●					
<b>AP103</b>	Emulsion Acrylic	High	High	7°C	-50°C to 90°C		●							●	●	●	●	●	●		●
<b>S692N</b>	Emulsion Acrylic	High	High	5°C	-20°C to 80°C				T						●	●	T	●	●	●	●
<b>S4000N</b>	Emulsion Acrylic	High	High	10°C	-20°C to 100°C			T	T						●	●	●		●		●
<b>AF101</b>	Emulsion Acrylic	High	High	7°C	-50°C to 90°C		●			●	T			●	●	●		●	●		●
<b>Removable</b>																					
<b>R5000</b>	Emulsion Acrylic	Low	Medium	-15°C	-30°C to 80°C	T	●							●	●		●		●		●

● Recommended T Trial/Test

# S2045/N

## Rubber Based Hotmelt

Specific Application

Food, beverage, cosmetics, household, promotional, industrial, pharmaceutical

- ▶ Excellent tack and adhesion on a wide variety of substrates, including apolar, slightly rough and curved substrates.
- ▶ Particularly good performance at lower temperatures, e.g. labeling of chilled products.

<b>Facestock</b>	Paper/Film
<b>Initial Tack</b>	High
<b>Min. Application Temp.</b>	0°C
<b>Ultimate Adhesion</b>	Very High
<b>Service Temp.</b>	-40°C to 70°C

### Compliance

- FDA Indirect Food Contact (175.105) ●
- FDA Direct Food Contact ●
- German recommendations XXI as published by BfR. ●

### Applications

- Freezer
- Chilled T
- Wet Surfaces
- Tight Mandrel T
- Ice Bucket
- Durable
- Removable

### Substrates

- Cardboard T
- Glass ●
- PET ●
- HDPE T
- LDPE ●
- PP ●

# S2400

## Rubber Based Hotmelt

Specific Application

Food, beverage, cosmetics, household, promotional, industrial, pharmaceutical

- ▶ Excellent initial tack and adhesion on a variety of substrates
- ▶ Exhibits low bleed characteristics
- ▶ Good diecutting & guillotining properties
- ▶ Demonstrates good UV resistance and aged performance

<b>Facestock</b>	Paper
<b>Initial Tack</b>	High
<b>Min. Application Temp.</b>	0°C
<b>Ultimate Adhesion</b>	Very High
<b>Service Temp.</b>	-40°C to 70°C

### Compliance

- FDA Indirect Food Contact (175.105) ●
- FDA Direct Food Contact
- German recommendations XXI as published by BfR.

<b>Applications</b>		<b>Substrates</b>	
Freezer		Cardboard	
Chilled	T	Glass	●
Wet Surfaces		PET	●
Tight Mandrel	T	HDPE	
Ice Bucket		LDPE	
Durable		PP	●
Removable			

# S2060

## Rubber Based Hotmelt

Specific Application

Food, beverage, cosmetics, household, promotional, industrial, pharmaceutical

- ▶ Excellent tack on wide variety of substrates.
- ▶ Designed specifically for application at room temperature.
- ▶ Excellent converting performance and resistance to bleed, making it ideal for difficult die shapes or warmer climates

<b>Facestock</b>	Paper
<b>Initial Tack</b>	High
<b>Min. Application Temp.</b>	5°C
<b>Ultimate Adhesion</b>	Very High
<b>Service Temp.</b>	-20°C to 70°C

### Compliance

- FDA Indirect Food Contact (175.105) ●
- FDA Direct Food Contact
- German recommendations XXI as published by BfR.

Applications	Substrates
Freezer	Cardboard ●
Chilled	Glass ●
Wet Surfaces	PET ●
Tight Mandrel T	HDPE ●
Ice Bucket	LDPE ●
Durable	PP ●
Removable	

# S1105

## Emulsion Acrylic

Specific Application

Food, beverage, cosmetics, household, promotional, industrial, pharmaceutical

- ▶ Good initial tack and adhesion on a variety of substrates
- ▶ Exhibits low bleed characteristics
- ▶ Good diecutting & guillotining properties
- ▶ Demonstrates good UV resistance and aged performance

<b>Facestock</b>	Paper
<b>Initial Tack</b>	Medium
<b>Min. Application Temp.</b>	5°C
<b>Ultimate Adhesion</b>	High
<b>Service Temp.</b>	-20°C to 80°C

### Compliance

FDA Indirect Food Contact (175.105)  
 FDA Direct Food Contact  
 German recommendations XXI as published by BfR.

Applications	Substrates
Freezer	Cardboard
Chilled	Glass ●
Wet Surfaces	PET ●
Tight Mandrel	HDPE
Ice Bucket	LDPE
Durable	PP ●
Removable	



# S2000/NG

## Emulsion Acrylic

Specific Application

Food, beverage, cosmetics, household, promotional, industrial, pharmaceutical

- ▶ Excellent initial tack and adhesion on a variety of substrates
- ▶ Exhibits low bleed characteristics
- ▶ Good diecutting & guillotining properties
- ▶ Demonstrates good UV resistance and aged performance

<b>Facestock</b>	Paper
<b>Initial Tack</b>	High
<b>Min. Application Temp.</b>	0°C
<b>Ultimate Adhesion</b>	High
<b>Service Temp.</b>	-20°C to 50°C

**Compliance**

- FDA Indirect Food Contact (175.105) ●
- FDA Direct Food Contact
- German recommendations XXI as published by BfR.

<b>Applications</b>	<b>Substrates</b>
Freezer	Cardboard
Chilled	Glass ●
Wet Surfaces	PET ●
Tight Mandrel	HDPE ●
Ice Bucket	LDPE
Durable	PP ●
Removable	

# S1010

## Emulsion Acrylic

Specific Application

Food, beverage, cosmetics, household, promotional, industrial, pharmaceutical

- ▶ Good initial tack and adhesion on a variety of substrates
- ▶ Exhibits low bleed characteristics
- ▶ Good diecutting & guillotining properties
- ▶ Demonstrates good UV resistance and aged performance

<b>Facestock</b>	Paper
<b>Initial Tack</b>	High
<b>Min. Application Temp.</b>	5°C
<b>Ultimate Adhesion</b>	High
<b>Service Temp.</b>	-20°C to 80°C

### Compliance

- FDA Indirect Food Contact (175.105) ●
- FDA Direct Food Contact
- German recommendations XXI as published by BfR.

<b>Applications</b>		<b>Substrates</b>	
Freezer		Cardboard	T
Chilled		Glass	●
Wet Surfaces		PET	●
Tight Mandrel	T	HDPE	●
Ice Bucket		LDPE	
Durable		PP	●
Removable			

# S6112

## Emulsion Acrylic

Specific Application

Retail, Logistics, promotional, industrial, pharmaceutical

- ▶ Good initial tack and adhesion on a variety of substrates
- ▶ Exhibits low bleed characteristics
- ▶ Good diecutting & guillotining properties

<b>Facestock</b>	Paper
<b>Initial Tack</b>	Medium
<b>Min. Application Temp.</b>	5°C
<b>Ultimate Adhesion</b>	Medium
<b>Service Temp.</b>	-20°C to 80°C

### Compliance

FDA Indirect Food Contact (175.105)  
 FDA Direct Food Contact  
 German recommendations XXI as published by BfR.

Applications	Substrates
Freezer	Cardboard
Chilled	Glass ●
Wet Surfaces	PET ●
Tight Mandrel	HDPE
Ice Bucket	LDPE
Durable	PP
Removable	

# AP103

## Emulsion Acrylic

Specific Application

Food, beverage, cosmetics, household, promotional, industrial, pharmaceutical

- ▶ All temperature adhesive providing high initial tack and excellent adhesion to a wide variety of substrates.
- ▶ Exhibits low bleed characteristics
- ▶ Good diecutting & guillotining properties

<b>Facestock</b>	Paper
<b>Initial Tack</b>	High
<b>Min. Application Temp.</b>	7°C
<b>Ultimate Adhesion</b>	High
<b>Service Temp.</b>	-50°C to 90°C

### Compliance

- FDA Indirect Food Contact (175.105) ●
- FDA Direct Food Contact
- German recommendations XXI as published by BfR.

Applications	Substrates
Freezer	Cardboard ●
Chilled ●	Glass ●
Wet Surfaces	PET ●
Tight Mandrel	HDPE ●
Ice Bucket	LDPE ●
Durable	PP ●
Removable	

# S692N

## Emulsion Acrylic

Specific Application

Food, beverage, cosmetics, household, promotional, industrial, pharmaceutical

- ▶ High degree of clarity and “wet out” for clear filmic facestocks
- ▶ Good initial tack and adhesion on a variety of substrates including apolar surfaces
- ▶ Exhibits low bleed characteristics
- ▶ Good die-cutting and stripping properties
- ▶ Offers a wide service temperature range
- ▶ Demonstrates good UV resistance
- ▶ Limited resistance to plasticisers found in PVC substrates and low molecular weight oils

<b>Facestock</b>	<b>Film</b>
<b>Initial Tack</b>	<b>High</b>
<b>Min. Application Temp.</b>	<b>5°C</b>
<b>Ultimate Adhesion</b>	<b>High</b>
<b>Service Temp.</b>	<b>-20°C to 80°C</b>

### Compliance

- FDA Indirect Food Contact (175.105) ●
- FDA Direct Food Contact ●
- German recommendations XXI as published by BfR. ●

<b>Applications</b>		<b>Substrates</b>	
Freezer		Cardboard	
Chilled		Glass	●
Wet Surfaces		PET	●
Tight Mandrel	T	HDPE	T
Ice Bucket		LDPE	●
Durable		PP	●
Removable			



# S4000N

## Emulsion Acrylic

Specific Application

Food, beverage, cosmetics, household, promotional, industrial, pharmaceutical

- ▶ S4000N is an extra clear, permanent adhesive featuring excellent UV, water and heat resistance and good tack and adhesion performance
- ▶ Good adhesion to apolar surfaces such as polyethylene bottles and packaging films.

<b>Facestock</b>	<b>Film</b>
<b>Initial Tack</b>	<b>High</b>
<b>Min. Application Temp.</b>	<b>10°C</b>
<b>Ultimate Adhesion</b>	<b>High</b>
<b>Service Temp.</b>	<b>-20°C to 100°C</b>

**Compliance**

- FDA Indirect Food Contact (175.105) ●
- FDA Direct Food Contact ●
- German recommendations XXI as published by BfR. ●

<b>Applications</b>		<b>Substrates</b>	
Freezer		Cardboard	
Chilled		Glass	●
Wet Surfaces	T	PET	●
Tight Mandrel	T	HDPE	●
Ice Bucket		LDPE	
Durable		PP	●
Removable			

# AF101

## Emulsion Acrylic

Specific Application

Food, beverage, cosmetics, household, promotional, industrial, pharmaceutical

- ▶ All temperature adhesive providing high initial tack and excellent adhesion to a wide variety of substrates.
- ▶ Exhibits low bleed characteristics
- ▶ Good diecutting & guillotining properties

<b>Facestock</b>	<b>Film</b>
<b>Initial Tack</b>	<b>High</b>
<b>Min. Application Temp.</b>	<b>7°C</b>
<b>Ultimate Adhesion</b>	<b>High</b>
<b>Service Temp.</b>	<b>-50°C to 90°C</b>

### Compliance

- FDA Indirect Food Contact (175.105) ●
- FDA Direct Food Contact
- German recommendations XXI as published by BfR.

<b>Applications</b>		<b>Substrates</b>	
Freezer		Cardboard	●
Chilled	●	Glass	●
Wet Surfaces		PET	●
Tight Mandrel		HDPE	
Ice Bucket	●	LDPE	●
Durable	T	PP	●
Removable			

# R5000

## Emulsion Acrylic

Specific Application

### Removable

- ▶ Features good tack and adhesion performance
- ▶ Offers relatively long term removability in combination with superior and clean removability from most substrate
- ▶ Delivers good UV resistance
- ▶ The adhesive allows label application at a wide temperature range and it retains its removable properties even at very low temperatures
- ▶ The adhesive complies with the European food directives and legislations, FDA 175.105 and the German recommendations XIV as published by BfR. BfR (Bundesinstitut für Risikobewertung) is the German Federal Institute for Risk Assessment. The adhesive can be used in direct contact with dry and moist, non fatty foodstuffs
- ▶ Please note removable adhesives are not recommended for tight mandrel applications
- ▶ Removability is subject to surface conditions, Avery Dennison recommends trialing before us

<b>Facestock</b>	<b>Paper/Film</b>
<b>Initial Tack</b>	<b>Low</b>
<b>Min. Application Temp.</b>	<b>-15°C</b>
<b>Ultimate Adhesion</b>	<b>Medium</b>
<b>Service Temp.</b>	<b>-30°C to 80°C</b>

### Compliance

FDA Indirect Food Contact (175.105)	●
FDA Direct Food Contact German recommendations XXI as published by BfR.	●

### Applications

Freezer	T
Chilled	●
Wet Surfaces	
Tight Mandrel	
Ice Bucket	
Durable	
Removable	●

### Substrates

Cardboard	●
Glass	●
PET	
HDPE	●
LDPE	
PP	●

# Freezer/High Tack/Special Purpose

	Specific Application	Adhesive Technology	Initial Tack	Ultimate Adhesion	Min. app. temp.	Service temp.	Applications						Substrate						Food	
							Freezer	Chilled	Wet Surfaces	Tight Mandrel	Ice Bucket	Durable	Removable	Cardboard	Glass	PET	HDPE	LDPE	PP	Indirect
<b>Freezer</b>																				
<b>C2075</b>	Freezer	Rubber Based Hotmelt	High	High	-20°C	-500°C to 70°C	●	●	T								●	●		
<b>High Tack</b>																				
<b>S277</b>	Industrial, Lubricant Oil, Home & Personal Care	Rubber Based Hotmelt	Very High	Very High	5°C	-20°C to 80°C				●							●	●		
<b>S2345</b>	Rough surfaces, Recycled board	Rubber Based Hotmelt	Very High	Very High	-5°C	-40°C to 70°C		●		●							●	●		
<b>S2050</b>	Pharmaceuticals, small cylinders, cosmetics	Rubber Based Hotmelt	Very High	Very High	0°C	-20°C to 70°C		●		●							●	●		
<b>TS79</b>	Tyre	Rubber Based Hotmelt	Very High	Very High	0°C	-20°C to 70°C			T			●					●	●		
<b>S445N</b>	Rubber, carpet, fabric, wood	Rubber Based Hotmelt	Very High	Very High	5°C	-40°C to 70°C						●					●	●		
<b>Special Purpose</b>																				
<b>S2700</b>	Laser, sheets	Emulsion Acrylic	Medium	High	5°C	-20°C to 80°C											●	●		
<b>S2000W</b>	Wine	Emulsion Acrylic	High	High	5°C	-20°C to 80°C				T		●					T	●		
<b>S2030</b>	Wine	Emulsion Acrylic	High	Very High	5°C	-20°C to 80°C		●	T	●	●						●	●		
<b>S2047</b>	Wine	Rubber Based Hotmelt	Very High	Very High	5°C	-30°C to 70°C		●	T	●	●						●	●		
<b>Z1010</b>	Wine	Emulsion Acrylic	High	Very High	5°C	-20°C to 60°C		●	T	●	●						●	●		
<b>S451</b>	Wine	Rubber Based Hotmelt	Very High	High	-5°C	-40°C to 80°C		●	T	T	●						●	●		

● Recommended T Trial/Test

# C2075

## Rubber Based Hotmelt

Specific Application

### Freezer

- ▶ Excellent cold temperature performance but moderate room temperature performance
- ▶ Good adhesion performance can be achieved on slightly frosted surfaces
- ▶ Resistant to moisture during thawing
- ▶ Suitable for a wide variety of packaging materials and in particular flexible films

<b>Facestock</b>	<b>Paper/Film</b>
<b>Initial Tack</b>	<b>High</b>
<b>Min. Application Temp.</b>	<b>-20°C</b>
<b>Ultimate Adhesion</b>	<b>High</b>
<b>Service Temp.</b>	<b>-500°C to 70°C</b>

**Compliance**

FDA Indirect Food Contact (175.105)	●
FDA Direct Food Contact	●
German recommendations XXI as published by BfR.	●

<b>Applications</b>		<b>Substrates</b>	
Freezer	●	Cardboard	●
Chilled	●	Glass	●
Wet Surfaces	T	PET	●
Tight Mandrel		HDPE	●
Ice Bucket		LDPE	●
Durable		PP	●
Removable			



# S277

## Rubber Based Hotmelt

Specific Application

### Industrial, Lubricant Oil, Home & Personal Care

- ▶ Highly aggressive permanent adhesive with excellent tack and adhesion to a wide variety of substrates including rough and apolar substrates.
- ▶ NB. Due to the nature of the adhesive, a slight yellowing effect of the adhesive may occur over time.

<b>Facestock</b>	<b>Film</b>
<b>Initial Tack</b>	<b>Very High</b>
<b>Min. Application Temp.</b>	<b>5°C</b>
<b>Ultimate Adhesion</b>	<b>Very High</b>
<b>Service Temp.</b>	<b>-20°C to 80°C</b>

### Compliance

FDA Indirect Food Contact (175.105)

FDA Direct Food Contact  
 German recommendations XXI as published by BfR.

<b>Applications</b>	<b>Substrates</b>
Freezer	Cardboard ●
Chilled	Glass ●
Wet Surfaces	PET ●
Tight Mandrel ●	HDPE ●
Ice Bucket	LDPE ●
Durable	PP ●
Removable	

# S2345

## Rubber Based Hotmelt

Specific Application

### Rough surfaces, Recycled board

- ▶ Very high tack and excellent performance on difficult substrates including textured HDPE and recycled corrugated cardboard
- ▶ Suitable for use in chilled environments

<b>Facestock</b>	<b>Paper/Film</b>
<b>Initial Tack</b>	<b>Very High</b>
<b>Min. Application Temp.</b>	<b>-5°C</b>
<b>Ultimate Adhesion</b>	<b>Very High</b>
<b>Service Temp.</b>	<b>-40°C to 70°C</b>

**Compliance**

FDA Indirect Food Contact (175.105)	●
FDA Direct Food Contact	●
German recommendations XXI as published by BfR.	●

<b>Applications</b>	<b>Substrates</b>
Freezer	Cardboard ●
Chilled ●	Glass ●
Wet Surfaces	PET ●
Tight Mandrel ●	HDPE ●
Ice Bucket	LDPE ●
Durable	PP ●
Removable	

# S2050

## Rubber Based Hotmelt

Specific Application

**Pharmaceuticals, small cylinders, cosmetics**

- ▶ A permanent rubber based adhesive featuring ultra high initial tack and ultimate bond strength, specifically engineered for plastic substrates including small cylindrical applications for the pharmaceutical and cosmetic industry.

<b>Facestock</b>	<b>Paper/Film</b>
<b>Initial Tack</b>	<b>Very High</b>
<b>Min. Application Temp.</b>	<b>0°C</b>
<b>Ultimate Adhesion</b>	<b>Very High</b>
<b>Service Temp.</b>	<b>-20°C to 70°C</b>

**Compliance**

FDA Indirect Food Contact (175.105)	●
FDA Direct Food Contact	●
German recommendations XXI as published by BfR.	●

<b>Applications</b>	<b>Substrates</b>
Freezer	Cardboard ●
Chilled ●	Glass ●
Wet Surfaces	PET ●
Tight Mandrel ●	HDPE ●
Ice Bucket	LDPE ●
Durable	PP ●
Removable	

# TS79

## Rubber Based Hotmelt

Specific Application

### Tyre

- ▶ TS79 is specially designed to meet the performance requirements of automotive tyre labelling.
- ▶ The special composition provides a superb anchorage of the label to the compound curved and extremely irregular surface of tyres, neglecting the negative influences of surface contaminants such as mould release agents or components migrating from the rubber.
- ▶ Temperature levels of 50 degree celsius should not be exceeded
- ▶ Excessive exposure to sunlight may also result in degradation of the adhesive
- ▶ This label material does not have any negative effect on the properties and performance of labelled tyres.
- ▶ Limited conversion speeds
- ▶ The construction will have a tendency to bleed, so therefore avoid tight rewinding
- ▶ Note: this product contains a very aggressive adhesive. If the product is without SGP (Special Gum Pattern), slit reels will not be delivered with bleed-free edges and edge-bleed can occur. In case bleed-free edges are required, please contact your local sales representative.

<b>Facestock</b>	<b>Paper/Film</b>
<b>Initial Tack</b>	<b>Very High</b>
<b>Min. Application Temp.</b>	<b>0°C</b>
<b>Ultimate Adhesion</b>	<b>Very High</b>
<b>Service Temp.</b>	<b>-20°C to 70°C</b>

### Compliance

FDA Indirect Food Contact (175.105)

FDA Direct Food Contact  
 German recommendations XXI as published by BfR.

<b>Applications</b>		<b>Substrates</b>	
Freezer		Cardboard	●
Chilled	T	Glass	●
Wet Surfaces		PET	●
Tight Mandrel		HDPE	●
Ice Bucket		LDPE	
Durable	●	PP	●
Removable			

# S445N

## Rubber Based Hotmelt

Specific Application

Rubber, carpet, fabric, wood

- ▶ The aggressive nature of the adhesive provides excellent performance on rough or difficult substrates such as rubber goods, shoes, rugs and carpets, as well as on packaging materials like cardboard, wood, fibre drums and plastic containers (e.g. HDPE and Polypropylene drums).
- ▶ In addition the adhesive has excellent performance at low temperature and on apolar substrates.

<b>Facestock</b>	Paper/Film
<b>Initial Tack</b>	Very High
<b>Min. Application Temp.</b>	5°C
<b>Ultimate Adhesion</b>	Very High
<b>Service Temp.</b>	-40°C to 70°C
<b>Compliance</b>	
FDA Indirect Food Contact (175.105)	●
FDA Direct Food Contact German recommendations XXI as published by BfR.	●
<b>Applications</b>	<b>Substrates</b>
Freezer	Cardboard ●
Chilled	Glass ●
Wet Surfaces	PET ●
Tight Mandrel	HDPE ●
Ice Bucket	LDPE ●
Durable ●	PP ●
Removable	

# S2700

## Emulsion Acrylic

Specific Application

### Laser, sheets

- ▶ Designed for roll to sheet conversion
- ▶ Suitable for copier and laser printer products
- ▶ Features excellent guillotining properties with reduced edge bleed
- ▶ Good tack and adhesion performance subject to surface conditions
- ▶ Offers performance over a wide temperature range
- ▶ High speed sheet fed laser printers and copiers
- ▶ Adhesive available on imported laminates only

<b>Facestock</b>	Paper
<b>Initial Tack</b>	Medium
<b>Min. Application Temp.</b>	5°C
<b>Ultimate Adhesion</b>	High
<b>Service Temp.</b>	-20°C to 80°C

**Compliance**

FDA Indirect Food Contact (175.105) ●

FDA Direct Food Contact  
 German recommendations XXI as published by BfR.

<b>Applications</b>	<b>Substrates</b>
Freezer	Cardboard ●
Chilled	Glass ●
Wet Surfaces	PET
Tight Mandrel	HDPE
Ice Bucket	LDPE
Durable	PP
Removable	



# S2000W

## Emulsion Acrylic

Specific Application

### Wine

- ▶ General purpose wine adhesive exhibiting excellent adhesive performance
- ▶ Adhesive performance will be reduced if heavy embossing or foiling is applied - prior testing is strongly recommended. Labels must have a 3mm grain free zone measured from label edges.
- ▶ Exhibits low bleed characteristics
- ▶ Good die-cutting and stripping properties
- ▶ Offers a wide service temperature range

<b>Facestock</b>	<b>Film</b>
<b>Initial Tack</b>	<b>High</b>
<b>Min. Application Temp.</b>	<b>5°C</b>
<b>Ultimate Adhesion</b>	<b>High</b>
<b>Service Temp.</b>	<b>-20°C to 80°C</b>

### Compliance

FDA Indirect Food Contact (175.105)  
 FDA Direct Food Contact  
 German recommendations XXI as published by BfR.

<b>Applications</b>		<b>Substrates</b>	
Freezer		Cardboard	T
Chilled		Glass	●
Wet Surfaces	T	PET	●
Tight Mandrel		HDPE	
Ice Bucket	●	LDPE	
Durable		PP	●
Removable			

# S2030

## Emulsion Acrylic

Specific Application

### Wine

- ▶ General purpose wine adhesive exhibiting excellent adhesive performance
- ▶ The product is designed for use in the beverage industry, especially for the labelling of wine bottles when the advantages of front & back body labels and neck / shoulder labelling on the same adhesive is important
- ▶ Adhesive performance will be reduced if heavy embossing or foiling is applied - prior testing is strongly recommended. Labels must have a 3mm grain free zone measured from label edges.
- ▶ To avoid bubbling with offset papers care needs to be taken with application. Refer to Water Spray Protocol in the Avery Dennison Wine Technical Handbook

<b>Facestock</b>	Paper
<b>Initial Tack</b>	High
<b>Min. Application Temp.</b>	5°C
<b>Ultimate Adhesion</b>	Very High
<b>Service Temp.</b>	-20°C to 80°C

### Compliance

- FDA Indirect Food Contact (175.105) ●
- FDA Direct Food Contact ●
- German recommendations XXI as published by BfR. ●

Applications	Substrates
Freezer	Cardboard
Chilled ●	Glass ●
Wet Surfaces T	PET ●
Tight Mandrel ●	HDPE ●
Ice Bucket ●	LDPE ●
Durable	PP ●
Removable	

# S2047

## Rubber Based Hotmelt

Specific Application

### Wine

- ▶ General purpose wine adhesive exhibiting excellent adhesive performance
- ▶ Provides moisture resistance after application on a dry surface
- ▶ Suitable for a wide variety of substrates including apolar slightly rough and curved surfaces
- ▶ Adhesive performance will be reduced if heavy embossing or foiling is applied - prior testing is strongly recommended. Labels must have a 3mm grain free zone measured from label edges.
- ▶ To avoid bubbling with offset papers care needs to be taken with application. Refer to Water Spray Protocol Technical Marketing Bulletin
- ▶ For details on ice bucket performance please refer to the Avery Dennison Wine Technical Handbook
- ▶ Excessive exposure to sunlight may also result in degradation of the adhesive

<b>Facestock</b>	Paper
<b>Initial Tack</b>	Very High
<b>Min. Application Temp.</b>	5°C
<b>Ultimate Adhesion</b>	Very High
<b>Service Temp.</b>	-30°C to 70°C

### Compliance

- FDA Indirect Food Contact (175.105) ●
- FDA Direct Food Contact ●
- German recommendations XXI as published by BfR. ●

<b>Applications</b>		<b>Substrates</b>	
Freezer		Cardboard	●
Chilled	●	Glass	●
Wet Surfaces	T	PET	●
Tight Mandrel	●	HDPE	●
Ice Bucket	●	LDPE	●
Durable		PP	●
Removable			

# Z1010

## Emulsion Acrylic

Specific Application

### Wine

- ▶ The adhesive features high initial tack, excellent adhesion and good low temperature performance on a wide variety of substrates.
- ▶ Specially designed for wine labelling applications it allows easy conversion of difficult label shapes.
- ▶ Engineered to help minimizing the loss of opacity in wet conditions (grey effect).

<b>Facestock</b>	Paper
<b>Initial Tack</b>	High
<b>Min. Application Temp.</b>	5°C
<b>Ultimate Adhesion</b>	Very High
<b>Service Temp.</b>	-20°C to 60°C

**Compliance**

FDA Indirect Food Contact (175.105)	●
FDA Direct Food Contact	●
German recommendations XXI as published by BfR.	●

Applications		Substrates	
Freezer		Cardboard	
Chilled	●	Glass	●
Wet Surfaces	T	PET	●
Tight Mandrel	●	HDPE	T
Ice Bucket	●	LDPE	●
Durable		PP	●
Removable			

# S451

## Rubber Based Hotmelt

Specific Application

### Wine

- ▶ Wine adhesive exhibiting excellent adhesive performance to most surfaces including apolar materials such as polyethylene
- ▶ Provides moisture resistance after application on a dry surface. Good adhesion can also be exhibited on slightly damp surfaces.
- ▶ Adhesive performance will be reduced if heavy embossing or foiling is applied - prior testing is strongly recommended. Labels must have a 3mm grain free zone measured from label edges.
- ▶ To avoid bubbling with offset papers care needs to be taken with application. Refer to Water Spray Protocol Technical Marketing Bulletin
- ▶ For details on ice bucket performance please refer to the Avery Dennison Wine Technical Handbook
- ▶ Excessive exposure to sunlight may also result in degradation of the adhesive

<b>Facestock</b>	Paper
<b>Initial Tack</b>	Very High
<b>Min. Application Temp.</b>	-5°C
<b>Ultimate Adhesion</b>	High
<b>Service Temp.</b>	-40°C to 80°C

### Compliance

- FDA Indirect Food Contact (175.105) ●
- FDA Direct Food Contact ●
- German recommendations XXI as published by BfR. ●

### Applications

Freezer	
Chilled	●
Wet Surfaces	T
Tight Mandrel	T
Ice Bucket	●
Durable	
Removable	








### Substrates

Cardboard	
Glass	●
PET	●
HDPE	
LDPE	
PP	●



# Plastic Substrate Recommendation Chart

When choosing labelstock for plastic substrates it is important to match the right adhesive for the job. The table below outlines Avery Dennison’s adhesive recommendations per substrate.

Plastics	Permanent		Removable	
	Paper	Synthetics	Paper	Synthetics
 1) <b>PET</b> used for: Soft drink, fruit juice & mineral water bottles some kitchen & laundry detergent bottles	<b>S2045/N, S2400, S2060, S1105, S2000/NG, S1010, S6112, AP103, C2075, S2345, S2050, TS79, S445N, S2030, S2047, Z1010, S451</b>	<b>S2045/N, S692N, S4000N, AF101, C2075, S277, S2345, S2050, TS79, S445N, S2000W</b>		
 2) <b>HDPE</b> used for: Milk & cream bottles, as well as kitchen, laundry & detergent bottles, supermarket & retailers bags	<b>S2045/N, S2060, S2000/NG, S1010, AP103, C2075, S2345, S2050, TS79, S445N, S2030, S2047, Z1010</b>	<b>S2045/N, S692N, S4000N, C2075, S277, S2345, S2050, TS79, S445N</b>	<b>R5000</b>	
 3) <b>Vinyl</b> used for: Cordial & fruit juice bottles as well as kitchen, laundry & detergent bottles		<b>S692N</b>		
 4) <b>LDPE</b> used for: Shrink & stretch wrap	<b>S2045/N, S2060, AP103, C2075, S2345, S2050, S445N, S2030, S2047, Z1010</b>	<b>S2045/N, S692N, AF101, C2075, S277, S2345, S2050, S445N</b>	<b>R5000</b>	
 5) <b>PP</b> used for: Ice-cream tubs & food containers	<b>S2045/N, S2400, S2060, S1105, S2000/NG, S1010, S6112, AP103, C2075, S2345, S2050, TS79, S445N, S2030, S2047, Z1010, S451</b>	<b>S2045/N, S692N, S4000N, AF101, C2075, S277, S2345, S2050, TS79, S445N, S2000W</b>	<b>R5000</b>	
 6) <b>PS/EPS</b> used for: Yoghurt containers, take-away “clamshells”, fruit boxes	<b>S2030</b>	<b>S692N</b>	<b>R5000</b>	
 7) <b>Other</b> used for: Seek advice for items in this category				



# Liner

		<u>Basis Weight</u>	<u>Thickness</u>
<b>Glassine</b>			
<b>BG40Wh</b>	A super calendered glassinated paper, available in white.	58 g/m <sup>2</sup>	51 µm
<b>BG50Wh</b>	A super calendered glassinated paper, available in white.	78 g/m <sup>2</sup>	69 µm
<b>BG40BI</b>	A super calendered glassinated paper, available in blue.	58 g/m <sup>2</sup>	51 µm
<b>PET</b>			
<b>PET23</b>	A clear polyester film giving optimum smoothness to the adhesive layer and featuring very high strength and toughness.	33 g/m <sup>2</sup>	23 µm
<b>PET30</b>	A clear polyester film giving optimum smoothness to the adhesive layer and featuring very high strength and toughness.	43 g/m <sup>2</sup>	30 µm
<b>Kraft</b>			
<b>CCK55</b>	A one side clay coated Kraft liner with good dimensional stability, available in white	55 g/m <sup>2</sup>	58 µm
<b>CCK80</b>	A one side clay coated Kraft liner with good dimensional stability, available in white	80 g/m <sup>2</sup>	80 µm
<b>B90</b>	A clay coated Kraft liner designed for excellent layflat needed in sheet products	87 g/m <sup>2</sup>	91 µm
<b>B100</b>	A clay coated Kraft liner designed for excellent layflat needed in sheet products	100 g/m <sup>2</sup>	87 µm

# BG40Wh

## Glassine

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A super calendered glassinated paper, available in white.

**Basis Weight**

**58 g/m<sup>2</sup>**

**Thickness**

**51 μm**

Designed for medium to high speed conversion. Good caliper consistency allows accurate kiss die cutting. The paper's translucent properties are perfectly suited to automatic label applicators and is particularly suitable for products in reels.

# BG50Wh

## Glassine

---

A super calendered glassinated paper, available in white.

**Basis Weight**

**78 g/m<sup>2</sup>**

**Thickness**

**69 μm**

Designed for medium to high speed conversion. Good caliper consistency allows accurate kiss die cutting. The paper's translucent properties are perfectly suited to automatic label applicators and is particularly suitable for products in reels.

# BG40BI

## Glassine

---

A super calendered glassinated paper, available in blue.

**Basis Weight**

**58 g/m<sup>2</sup>**

**Thickness**

**51 μm**

Designed for medium to high speed conversion. Good caliper consistency allows accurate kiss die cutting. The paper's translucent properties are perfectly suited to automatic label applicators and is particularly suitable for products in reels.

# PET23

## PET

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A clear polyester film giving optimum smoothness to the adhesive layer and featuring very high strength and toughness.

**Basis Weight**

**33 g/m<sup>2</sup>**

**Thickness**

**23 μm**

For applications where highest clarity of the applied label is required i.e. the “no label look”. The films high strength and uniform caliper permit very high speed conversion and dispensing.

# PET30

## PET

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A clear polyester film giving optimum smoothness to the adhesive layer and featuring very high strength and toughness.

**Basis Weight**

**43 g/m<sup>2</sup>**

**Thickness**

**30 μm**

For applications where highest clarity of the applied label is required i.e. the “no label look”. The films high strength and uniform caliper permit very high speed conversion and dispensing.



# CCK55

## Kraft

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A one side clay coated Kraft liner with good dimensional stability, available in white

**Basis Weight**

**55 g/m<sup>2</sup>**

**Thickness**

**58 μm**

The Hygroflat liner suitable for high speed sheet fed laser printers and copiers. Suited for roll to sheet label conversion.

# CCK80

## Kraft

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A one side clay coated Kraft liner with good dimensional stability, available in white

**Basis Weight**

**80 g/m<sup>2</sup>**

**Thickness**

**80 μm**

Featuring uniform thickness, toughness and tear resistance as well as good layflat.

# B90

## Kraft

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A clay coated Kraft liner designed for excellent layflat needed in sheet products

**Basis Weight**

**87 g/m<sup>2</sup>**

**Thickness**

**91 μm**

Featuring good dimensional stability and flatness during processing, combined with the resilience to support die cutting.



# B100

## Kraft

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A clay coated Kraft liner designed for excellent layflat needed in sheet products

**Basis Weight**

**100 g/m<sup>2</sup>**

**Thickness**

**87 µm**

Featuring good dimensional stability and flatness during processing, combined with resilience to support die cut. A clay coating on the unsiliconised side make this surface suitable for high quality process printing.

# Product Selection Considerations

As part of our commitment to improve and innovate, these selection considerations were written to guide you through the product selection process. Choosing the right product can be a challenge, but with Avery Dennison it's easy. Simply understand your requirements then call your local Avery Dennison representative.

## 1. Is the label to be permanent or removable?

- a) For removable labels ensure the substrate is strong enough to withstand label removal.
- b) Larger labels may require a stronger facestock to prevent tear on removal.
- c) A label is considered permanent if the bond to the substrate is impossible to remove without tearing the material.

## 2. What is the composition of the substrate?

- a) The composition of the substrate that the label will be applied to can have an effect on the ultimate strength of the bond that the label will form.
- b) On low surface energy materials, initial tack is the most important criteria. Adhesive levels will improve with longer dwell.

## 3. What is the texture of the substrate's surface?

- a) The texture of a substrate can have an impact on the formation adhesive.
- b) Textured materials do not allow 100% contact of the adhesive. Less contact means a smaller bonding area which will result in lower adhesion.
- c) Performance on heavily textured materials is improved with careful product selection.
- d) A more aggressive adhesive will maximize the adhesion at contact area.

## 4. What is the shape of the substrate?

- a) The shape of the substrate along with the size and stiffness of the label must be considered to ensure proper end-use performance. Curved surfaces (less than 25mm in diameter) will require an aggressive adhesive combined with a flexible facestock featuring little or no memory.
- b) Small labels or stiff facestocks may not adhere well on curved or irregular surfaces.

## 5. Is the application surface clean or contaminated?

- a) The cleanliness of the surface of the substrate when the label is applied will affect the ultimate adhesion of the label and the success of the application. Contamination from oil, grease, frost, dust, moisture and release agents are some causes of label failure.
- b) If contamination cannot be avoided, careful product selection can overcome the negative impact.

## 6. Are there any plasticisers present in the substrate?

- a) Plastics containing plasticisers (softeners) will degrade the adhesive bond strength and may render the label useless. Careful product selection can overcome the negative impact.

## 7. Are there any special application or exposure conditions that the label must withstand?

- a) Will the label be exposed to solvent/cleaning agents, large amounts of humidity or moisture, UV light or ozone?
- b) What is the application temperature of the label?
- c) Service Temperature - will the label be exposed to deep freeze conditions?

## 8. What are the printing, imprinting and conversion requirements?

- a) Most paper facestocks are suitable for all printing methods. Non-absorbent film facestocks require different considerations.
- b) When high quality process printing is required, careful selection of the facestock will be required.
- c) When imprinting is required, good resolution and smudge resistance is important.
- d) Corona treated films - effectiveness of the corona treatment reduces in time and can also be affected by abrasion or damage. To ensure optimum wettability and ink bond, additional in-line corona treatment is recommended for optimum ink key.
- e) All dies should be proofed to the construction.
- f) Complex shaped labels and square corners may limit the conversion speed.

**Avery Dennison**  
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