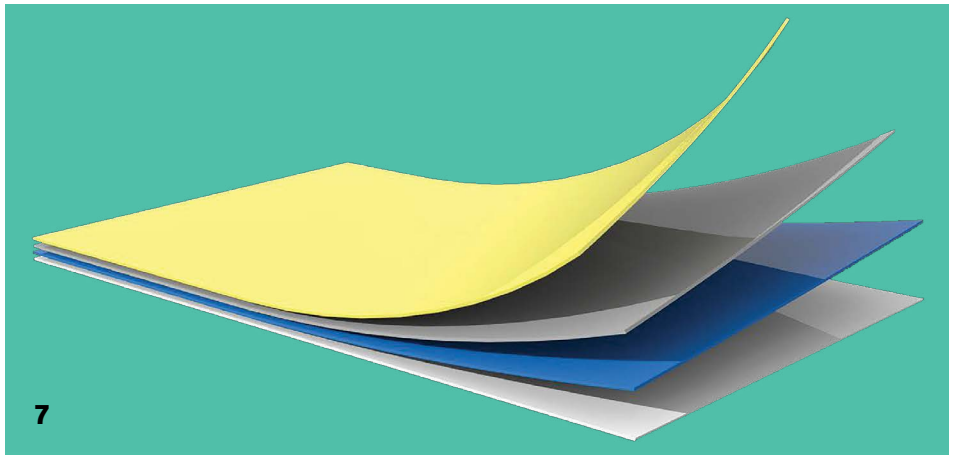


Pharmaceutical and Healthcare Collection

Build a healthier business with dedicated pharma labeling solutions





Tested. Proven. Consistent. Compliant.

Our dedicated portfolio of key paper and film products offers you tailored options for a variety of applications. Plus, our customer-ready products offers an added layer of security, lessening the chances for issues such as contamination and recalls.

The portfolio provides:

- > An easier way to understand and introduce pharmaceutical labeling solutions
- > Improved range of products addressing simple to complex application needs
- > Quick lead times and shorter time to market with use of pre-tested constructions
- > Increased brand owner familiarity
- > Change protection via change management process
- > Compliance expertise

Pharmaceutical Solutions

1 Syringe Labeling

Labels specifically designed for small diameter syringes and auto-injectors for better dosage security and sterility.

2 Cold Chain labeling

Ensure clear identification of biological materials from collection to storage, transportation and delivery to the medical facility and, ultimately, the patient.

3 Blood and plasma bag labels

Reliability and simplicity for identification labeling. Primary and secondary blood bags solutions.

4 Ethical and OTC containers

Servicing the growing demand for ethical products.

5 Tamper-evident security labelling / Anti-counterfeit labeling

Box damage labels to protect against tampering. Protect pharmaceutical products against counterfeiting.

6 RFID solutions

Improves inventory tracking and helps provide user interactive solutions.

7 Engineered Solutions
















Are we missing a construction you need? We have a team of technical solutions leaders dedicated to developing one-of-a-kind, engineered solutions that fit your time line.

8 Blister pack

Provides an alternative solution for packaging offering dosage control, freshness and potential customization.

Core Advantages

TESTED: Independently tested for an added layer of protection.

Adhesive Testing	S727	S717P	S692NP	S246	
Skin Irritants Result: Low irritation					 PASS
Eye Irritants Result: Low irritation					 FAIL
Acute Oral Toxicity Result: Not orally toxic					 NOT TESTED
3375 FDA Drug Master File Listing*	Yes	Yes	Yes	Yes	

*Our DMF file includes a longer list of adhesives than the four mentioned above. The DMF file helps end users with FDA approvals of the labels in the application. End users request the FDA opinion on specific adhesives being used in their application and the FDA uses adhesive information provided by Avery Dennison to determine if this adhesive is safe to use in the application.

Sterilization is defined as the total destruction of all microbial life and is part of processes in pharmaceutical and medical space

	Autoclave	E.T.O	Radiation
Sterilizing Agent	Pressurized steam	Ethylene oxide gas	Gamma rays and electron beam
Major Advantage	Ease of operation	Least damaging to package	Speed of operation
Major Challenge	Extremes of Temp, vacuum and pressure	Operation time, toxic residues	
Temperature	121C (249°F)	25C (77° F) to 55C (131° F)	Ambient Room
Recommendations	Polyolefin face and some rubber adhesives are not recommended. Best results with film face and acrylic adhesives	Polyolefin labels can be damaged. Good results with acrylic adhesives (paper and film)	Rubber adhesives are not recommended. Good results with acrylic adhesives (paper and film)

CONSISTENT: Component change minimization and robust notification commitment for peace of mind.

- > We strive for minimal component change disruptions
- > We provide automatic notification of any planned component changes
- > We offer safety stock of 3-12 months to facilitate re-qualification depending on the type of component change

CHANGE MANAGEMENT AND ADVANCED NOTIFICATION

Avery Dennison offers advanced notification of product changes, and provides pharma customers with the business-friendly support needed to manage pharma materials over their entire production lifetime:

- Pharma adhesives, with 3 - 12 months notification of modification*
- Specific performance requirements validated via application based testing
- Change management control with complete change management documentation
- Supporting documentation - e.g. Product Specification comparison

COMPLIANT: Meeting a wide range of regulatory standards.

Regulations are subject to change. For the most updated compliance statement, please contact your sales representative or visit label.averydennison.com/compliance

























FDA 175.105	Result: Approved
CONEG	Result: Does not contain
REACH SVHC	Result: Does not contain
RoHS / WEEE	Result: Does not contain




Paper Overview

Paper Facestock Descriptions

Pharma Cast Gloss+	Cast-coated, uncalendered paper featuring superior gloss, high strength and excellent print quality.
Pharma High-Gloss	Coated, calendered paper offering superior gloss, high strength and high-quality printing.
Pharma Semi-Gloss FSC®	Coated, super-calendered paper with moderate gloss, high strength, and high-quality printability. This facestock offers a marked reduction in the occurrence of surface contamination compared to traditional semi-gloss.
Lightweight Pharma Litho	Matte-coated, calendered paper providing superior flexibility and good printability. Recommended for tight mandrel applications (<1/4" substrate diameter).

Paper Facestock Characteristics

Paper Type	Basis Weight	Caliper	Print Resolution	Date Stamping	Smoothness	Flexibility	Opacity	Gloss
	lbs/ream (Ream = 500 25" x 38" sheets)	Thickness in Mils (1Mil = 1/1000 inch)						
Pharma Cast Gloss+	60	3.5						
Pharma High-Gloss	60	2.9						
Pharma Semi-Gloss FSC®	58	3.0						
Lightweight Pharma Litho	40	2.8						

 Excellent
  Good
  Not Recommended

Adhesives for Paper Components

Adhesive Descriptions

S727	High-performance, permanent solvent acrylic adhesive ideal for tight mandrel labeling. Widely used in applications requiring sterilization. Ideal for critical pharmaceutical applications requiring an extended component change notification commitment.
S717P	High-performance, permanent emulsion acrylic adhesive ideal for tight mandrel labeling. Widely used in applications requiring sterilization. Ideal for critical pharmaceutical applications requiring an extended component change notification commitment.
S692NP	General-purpose, permanent emulsion acrylic adhesive with good adhesion to low-energy substrates (e.g. squeezable containers). Often used in applications requiring sterilization. Ideal for consumer health care applications requiring a moderate component change notification commitment.
S246	General-purpose, permanent hot melt adhesive featuring high initial tack and ultimate adhesion. Ideal for consumer health care applications requiring a minimum component change notification commitment.

Typical Adhesive Performance Characteristics (with Paper Facestocks)*

Adhesive	Minimum Application Temperature	Service Temperature Range	Application	Adhesive Change Notification Commitment (Months)	Sterilization*			Adhesion*			Small Diameter (1/4 inch)*		
					Autoclave	ETO	Gamma	Glass	PE	PP	Glass	PE	PP
S727	+50° F	-65° F to +250° F	Ethical Drugs & Medical Devices	12									
S717P	+50° F	-65° F to +250° F	Ethical Drugs & Medical Devices	12									
S692NP	+23° F	-20° F to +200° F	Consumer Healthcare	6									
S246	+40° F	-65° F to +160° F	Consumer Healthcare	3									

*Application-specific testing required.

Recommended
 Product dependent/testing recommended
 Not Recommended

Liners for Paper Components

Liner Descriptions

40#CK 40#SCK 50#SCK	Bleached, calendered and super-calendered kraft release liners featuring high internal strength and tear resistance. Excellent for die cutting and dispensing.
44#PK	Poly-coated natural kraft (brown) paper liner for roll-to-roll applications. Specially designed for high-speed automatic label dispensing applications.
Ultraliner®	Proprietary extruded polyolefin film liner for paper facestocks. Rough backside to support print registration for multi-color jobs.
1.2 Mil PET 1.5 Mil PET	Clear, durable polyester liner appropriate for high-speed die cutting and dispensing.
ABC	Anti-block coating applied to the back side of the liner to prevent label transfer to the liner back when rolls of labels are unwound. Generally used with film facestocks or heavy adhesive coat weights.

Paper Specs

Application	Facestock	Spec#	Adhesive	Liner	Width/Length (In./Ft.)	Location	Lead Time	
Ethical Drugs & Medical Devices	Pharma Cast Gloss+	07609	S727	40#SCK	EXACT/5000 60/1668	PVL/WCT PVL/WCT	1 day 1 day	
		07610	S727	ULTRALINER	EXACT/5000 60/1668	PVL PVL/WCT/NEE	1 day 1 day	
		07612	S727	50#SCK	60/1668	NEE	1 day	
		07641	S727	1.5 Mil PET	60/4167	PVL	5 days	
		53279	S717P	40#SCK	60/1668	PVL	1 day	
		53286	S717P	1.5 Mil PET	60/4167	PVL	5 days	
	Pharma High-Gloss	08222	S727	50#SCK	60/4167	PVL	5 days	
		53169	S727	ULTRALINER®	60/1668	PVL	1 day	
		53283	S717P	40#SCK	60/1668	PVL	1 day	
	Pharma Semi-Gloss FSC®	53284	S717P	ULTRALINER®	60/4167	PVL	5 days	
		54332	S727	40#SCK	60/3500	PVL	5 days	
		54334	S727	1.5 Mil PET	60/4167	QTN	5 days	
		54335	S717P	1.5 Mil PET	60/1668	PVL	1 day	
		54333	S727	ULTRALINER®	60/4167	PVL	5 days	
	Lightweight Pharma Litho	54329	S717P	40#SCK	60/1668	PVL	1 day	
		07944*	S727	40#SCK (ABC)	EXACT/5000 60/1668	QTN QTN	1 day 1 day	
		07945*	S727	50#SCK (ABC)	60/1668	PVL	1 day	
		07948*	S727	ULTRALINER®	EXACT/5000 60/1668	PLV PVL	1 day 5 days	
		53282*	S717P	ULTRALINER®	60/1668	NEE	1 day	
		53285*	S717P	40#SCK	60/3000	PVL	5 days	
		53343*	S717P	1.2 Mil PET	60/1668	PVL	1 day	
	Consumer Healthcare	Pharma Cast Gloss+	07601	S246	40#CK	EXACT/10,000 78/1668	QTN/PTC/NEE QTN/PTC/NEE/ FTW/WCT	1 day 1 day
			14474 (splice-free)	S246	40#CK	EXACT/5000	QTN/PTC/FTW/ TOR/WCT/NEE	1 day
			19161	S246	1.2 Mil PET	EXACT/10,000 78/1668	QTN/NEE QTN	1 day 1 day
07806			S246	ULTRALINER®	EXACT/10,000 60/1668	PTC PTC	1 day 1 day	
54330			S246	40#SCK	EXACT/5000	PTC	1 day	
Pharma Semi-Gloss FSC®		54331	S246	1.5 Mil PET	30/1668	PTC	5 days	

* Recommended for tight mandrel applications

Locations: DAL-Dallas, TX: FTW-Fort Wayne, IN; GFD-Greenfield, IN; MTL-Montreal; NEE-Neenah, WI; PVL-Painesville, OH; PTC-Peachtree City, GA; QTN-Quakertown, PA; SEA-Seattle, WA; TOR-Toronto; WCT-West Coast

Film Overview

Film Facestock Descriptions

Primax® 350 White	Flexible, white opaque polyolefin film featuring excellent conformability for full-squeeze applications. Offers excellent print quality, dispensability and dimensional stability.
FasClear® 350 Clear	Flexible, matte clear polyolefin film offering excellent conformability for full-squeeze applications. Offers excellent print quality, dispensability and dimensional stability.
2.6 Mil White BOPP TC	Rigid, pearlized white biaxially-oriented polypropylene film with good conformability and high print quality. Cost-saving alternative to polyester.
2.0 Mil Clear BOPP TC	Rigid, ultra-clear, biaxially-oriented polypropylene film with good conformability and high print quality. Cost-saving alternative to polyester.
1.5 Mil Reveal PET	Rigid, ultra-clear, polyester film with good conformability and excellent durability.
2.3 Mil White BOPP TT	Rigid, pearlized white biaxially-oriented polypropylene film with good controllability and thermal transfer printability.
2.0 Mil Clear BOPP TT	Rigid, ultra-clear, biaxially-oriented polypropylene film with good conform ability and thermal transfer printability.

Film Facestock Characteristics

Film Type		Caliper Thickness in Mils (1Mil = 1/1000 inch)	Print Registration	Die Cutting	Dispensing	Conformability	Clarity	Gloss
Conformable	Primax® 350 White	0.0035 inches	Excellent	Good	Excellent	Excellent	Not Recommended	TBD
	FasClear® 350 Clear	0.0035 inches	Excellent	Good	Excellent	Excellent	Good	TBD
Rigid	2.6 Mil White BOPP TC	0.0026 inches	Excellent	Good	Excellent	Good	Not Recommended	TBD
	2.0 Mil Clear BOPP TC	0.0020 inches	Excellent	Excellent	Excellent	Good	Excellent	TBD
	2.0 Mil Clear BOPP TT	0.00142 inches	Excellent	Excellent	Excellent	Good	Excellent	TBD
	2.3 Mil White BOPP TT	0.0026 inches	Excellent	Good	Excellent	Good	Not Recommended	TBD
	2.0 Mil Clear BOPP TT	0.0020 inches	Excellent	Excellent	Excellent	Good	Excellent	TBD

Excellent
 Good
 Not Recommended

Adhesives for Film Components

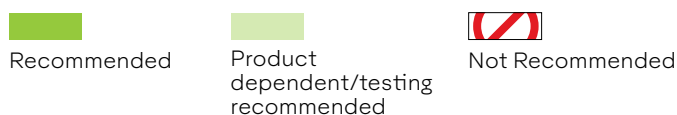
Adhesive Descriptions

S727	High-performance, permanent solvent acrylic adhesive ideal for tight mandrel labeling. Widely used in applications requiring sterilization. Ideal for critical pharmaceutical applications requiring an extended component change notification commitment.
S717P	High-performance, permanent emulsion acrylic adhesive ideal for tight mandrel labeling. Widely used in applications requiring sterilization. Ideal for critical pharmaceutical applications requiring an extended component change notification commitment.
S692NP	General-purpose, permanent emulsion acrylic adhesive with excellent adhesion to low-energy substrates (e.g. squeezable containers). Often used in applications requiring sterilization. Ideal for consumer health care applications requiring a moderate component change notification commitment.

Typical Adhesive Performance Characteristics (with Film Facestocks)*

Adhesive	Minimum Application Temperature	Service Temperature Range	Application	Adhesive Change Notification Commitment (Months)	Sterilization*			Adhesion*			Small Diameter (1/4 inch)*		
					Autoclave	ETO	Gamma	Glass	PE	PP	Glass	PE	PP
S727	+50° F	-65° F to +250° F	Ethical Drugs & Medical Devices	12	Recommended	Recommended	Recommended	Recommended	Recommended	Recommended	Recommended	Product dependent/testing recommended	Recommended
S717P	+50° F	-65° F to +250° F	Ethical Drugs & Medical Devices	12	Recommended	Product dependent/testing recommended	Product dependent/testing recommended	Recommended	Recommended	Recommended	Recommended	Recommended	Recommended
S692NP	+23° F	-20° F to +200° F	Consumer Healthcare	6	Recommended	Product dependent/testing recommended	Product dependent/testing recommended	Recommended	Recommended	Recommended	Product dependent/testing recommended	Not Recommended	Not Recommended

*Application-specific testing required.



Engineered Solutions

Missing a construction you need? Our dedicated team of technical solutions leaders develop one-of-a-kind, engineered solutions that fit your time line and your bottom line.

<p>1 →</p> <p>Problem</p> <p>You'll work directly with an Avery Dennison Technical Leader (TL) teammember to help you solve problems</p>	<p>2 →</p> <p>Idea</p> <p>Once you have the idea, our TL will provide you with quote, lead time and MOQ for the potential solution</p>	<p>3 →</p> <p>Prototype</p> <p>Using our materials and specialists, along with your knowledge, we'll create a prototype for trial</p>	<p>4 →</p> <p>Verify + Validate</p> <p>Working together, we'll verify and validate that the solution is truly fit for use</p>	<p>5</p> <p>Commercialize</p> <p>Then we'll commercialize the final solution allowing you to execute the opportunity</p>
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Liners for Film Components

Liner Descriptions

40# BG	Bleached, glassine white liner with good back printability. Designed for low-to medium-speed dispensing applications.
1.2 Mil PET	Clear, durable polyester liner appropriate for high-speed die cutting and dispensing.

Film Specs

Application	Facestock	Spec#	Adhesive	Liner	Width/Length (In./Ft.)	Location	Lead Time
Ethical Drugs & Medical Devices	Primax® 350	79064*	S727	40#BG	60/4167	PVL	5 days
		79043*	S717P	1.2 Mil PET	60/4167	PVL	5 days
		79044*	S717P	40#BG	60/4167	PVL	5 days
	FasClear® 350	79066*	S727	40#BG	60/4167	PVL	5 days
		79046*	S717P	40#BG	60/4167	PVL	5 days
		79059*	S727	1.2 Mil PET	60/4167	PVL	5 days
	2.6 Mil White BOPP TC	79060*	S727	40#BG	60/4167	PVL	5 days
		79039*	S717P	1.2 Mil PET	60/4167	PVL	5 days
		79040*	S717P	40#BG	60/4167	PVL	5 days
	2 Mil Clear BOPP TC	B3595	S727	40#BG	60/4167	PVL	5 days
		B3582	S717P	1.2 Mil PET	60/4167	PVL	5 days
		B3585	S717P	40#BG	60/4167	PVL	5 days
	1.5 Mil Reveal PET	79067	S727	1.2 Mil PET	60/4167	PVL	5 days
		79047	S717P	1.2 Mil PET	60/4167	PVL	5 days
	2 Mil Clear BOPP TT	79703	S717P	1.2 Mil PET	60/2800	PVL	4 Days
2.3 Mil White BOPP TT	79704	S717P	1.2 Mil PET	60/2800	PVL	4 Days	
Consumer Healthcare	FasClear® 350	79055	S692NP	1.2 Mil PET	60/4167	PVL	5 days
	2.6 Mil White BOPP TC	79049	S692NP	1.2 Mil PET	60/4167	PVL	5 days
		79050	S692NP	40#BG	60/4167	PVL	5 days
	2 Mil Clear BOPP TC	79051	S692NP	1.2 Mil PET	60/4167	PVL	5 days
	1.5 Mil Reveal PET	79057	S692NP	1.2 Mil PET	60/4167	PVL	5 days

* Recommended for tight mandrel applications

Locations: DAL-Dallas, TX: FTW-Fort Wayne, IN: GFD-Greenfield, IN: MTL-Montreal: NEE-Neenah, WI: PVL-Painesville, OH: PTC-Peachtree City, GA: QTN-Quakertown, PA: SEA-Seattle, WA: TOR-Toronto: WCT-West Coast