Cold chain labelling

In cold chain applications, a constant low temperature must be maintained at every stage of the supply chain. This is especially critical during the production and delivery of temperature-sensitive drugs. Avery Dennison cold chain solutions range from product labels, such as bloodbag labels, through to our smart temperature-tracking label, TT sensor Plus and our latest development, vacuum insulation panels (VIPs), provide a sustainable solution for temperature-controlled packaging.

Reliable labels that perform in freezing temperatures

More than one million human tissue samples are collected, stored and transported each year – at temperatures as low as -196°C. Our comprehensive low temperature portfolio is designed for bottles, test-tubes, vials and other containers used in hospitals, clinics and research labs. It enables many printing technologies, across applications ranging from blood bags to cryogenic and laboratory packaging.

Blood bags

Blood and plasma bags in refrigerators and freezers must meet particular labelling challenges, including reliable performance at low-temperatures and with chemical exposure. Our materials comply with FDA and European food regulations, and have been approved by ISEGA testing institute according to DIN ISO 3826 for “Plastic Collapsible Containers for Human Blood and Blood Components”.

Application areas

- Blood bag and plasma bag labelling
- Human and animal health: blood fractioning, stem cells, serum
- Hospital, clinic and laboratory labelling
- Deep freeze applications
- Re-labelling with opaque labels

Key features

- Compliance with FDA and European food regulations (under ISO 3826)*
- Cryogenic performance (down to -196°C)
- Steam autoclave sterilisation (up to +121°C)
- Good chemical resistance
- UV flexo, thermal transfer, direct thermal and UV inkjet
- Application temperature as low as -50°C with new C2050P adhesive

* Excluding C0196 and C2050P

Day(s) = Business day(s)

Product information

Code	Product description	MOQ (SQM)	Lead time (Ex works)	Servive Temperature Range	Minimum Application Temperature	Face material: Paper	Face material: Film	Face material: Autoclave Sterilization	Printability: Thermal Transfer Printability	Printability: Direct Thermal Printability	Printability: UV Inkjet Printability	Chemical Resistance	Opaque Treatment	Small Diameter Applications <15mm
Cryogenic Applications														
AZ452	PP Top White S2196-BG40WH	1000	7 days	-196 to +120 °C	+10 °C		✔	✔	✔		✔	✔		✔
BB624	PP Light Top Clear S2196-BG40WH	1000	7 days	-196 to +120 °C	+10 °C		✔	✔	✔		✔	✔		✔
BG470	PP95 Matt White S2196-BG40WH	1000	7 days	-196 to +120 °C	-28 °C		✔	✔	✔			✔		
AH403	2.3M PP Top White C0196-40BG	800	60 days	-196 to +120 °C	-28 °C		✔	✔	✔			✔		✔
BP341	Primax Plus C2050P-BG40WH FSC	1000	14 days	-196 to +120 °C	-50 °C		✔		✔			✔		✔
Laboratory and Hospital Applications														
BK372	PE85 Top Matt White S692NP-BG40WH FSC	1000	7 days	-20 to +80 °C	+5 °C		✔		✔					✔
AX308	PET50 PT Clear S692NP-BG40WH	1000	7 days	-20 to +80 °C	+5 °C		✔	✔	✔					
BF237	PP Light Top Clear S717P-BG45WH	1000	14 days	-50 to +121 °C	+10 °C		✔	✔	✔		✔			✔
BD522	PP Light Top White S717P-BG45WH	1000	14 days	-50 to +121 °C	+10 °C		✔	✔	✔		✔			✔
AY924	PP Top White Rev MET S692NP-BG40WH	1000	7 days	-20 to +80 °C	+5 °C		✔	✔	✔				✔	✔
AY612	Thermal60 Top K8 S2000NP-BG40BR	1000	14 days	-20 to +60 °C	0 °C	✔			✔	✔				✔
BK658	Transfer Superior S2000NP-BG40BR	2000	2 days	-20 to +80 °C	0 °C	✔		✔	✔					✔
BJ265	Transfer Vellum FSC S2000NP INC-BG40BR	1000	7 days	-20 to +80 °C	0 °C	✔		✔	✔					
Primary Blood Bag Applications (Industrial production)														
AA134	PE105 Matt White AL171-BG40WH	2520	21 days	-80 to +140 °C	+10 °C		✔	✔	✔			✔		
AA437	MC Wet Strength-AL171-BG40WH	1000	7 days	-80 to +140 °C	+10 °C	✔		✔	✔			✔		✔
AD980	Transfer PP AL171-BG40WH	1000	14 days	-80 to +140 °C	+10 °C		✔	✔	✔			✔		
EC211	PVC8128 PPS N MI465-BG40BR	1500	60 days	-80 to +120 °C	+10 °C		✔	✔	✔			✔		
Secondary Blood Bag Applications (Healthcare, manual application)														
AQ596	PP NG Top White S2060NP-BG45WH	1000	7 days	-40 to +70 °C	0 °C		✔		✔					✔
AN038	Transfer PEHD S2060NP-BG40BR	1000	7 days	-40 to +70 °C	0 °C		✔		✔					
AQ665	PB PP NG Top White 2XS2060NP-BG40BR/WH	1000	7 days	-40 to +70 °C	0 °C		✔		✔					
AZ612	Transfer PP75 Matt White S692NP-BG40WH FSC	1000	7 days	-20 to +80 °C	5 °C		✔		✔					
AO525	Transfer PE HD C2020P-BG40WH	1000	14 days	-50 to +80 °C	-20 °C		✔		✔			✔		
BJ476	Transfer PE HD C2020P INC-BG40WH FSC	1000	14 days	-50 to +80 °C	-20 °C		✔		✔			✔		

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For more information on technical performance and printing recommendations, please refer to the respective datasheets. Please note that the Avery Dennison product range and service offering can be subject to changes. For an accurate overview, please check our website label.averydennison.eu or contact your local Avery Dennison sales representative.

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