

Facestock

A matt white polymeric plasticised vinyl film.

Basis Weight	113 g/m ²	ISO 536
Caliper	80 µm	ISO 534

Adhesive

AL170 is a high cohesive, permanent, solvent-based acrylate adhesive.

Liner

BG42 white, a supercalendered glassine paper.

The liner is made from FSC® certified paper (FSC Mix Credit, chain-of-custody number: CU-COC-807907, Licence Code: FSC-C004451).

Basis Weight	63 g/m ²	ISO 536
Caliper	56 µm	ISO 534
Transparency	50 %	DIN 53147

Laminate

Total Caliper	160 µm±10%	ISO 534
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Performance Data

Initial Tack	10 N/25mm	FTM 9 Glass
Peel Adhesion 90°	9 N/25mm	FTM2 st.st. 24 hrs
Min. Application Temp.	0 °C	
Service Temperature	-80 °C to 110 °C	
Adhesive Coat Weight	24 g/m ²	FTM12
Adhesive Type	Solvent Acrylic	

Adhesive Performance

AL170 is distinguished by very high ageing stability and features excellent resistance against chemicals, heat and UV light. It has a high peel adhesion on high and medium surface energy substrates.

Applications and Use

PVC outdoor matt white is ideal for many medium-life indoor and outdoor applications. A durability of 7 years (vertical exposure, middle European exposure conditions) can be expected. The material is self-extinguishing. Due to the high flexibility of the film, the film is also used in cable marking applications.

Conversion and Printing

PVC outdoor matt white features good thermal transfer printability; for good abrasion resistance we recommend the use of resin ribbons. The product can be screen printed, for other print techniques specific testing is required. "PVC outdoor matt white" is qualified by Durst for UV inkjet printing. The material shows good die cutting performance.

Compliance and Approvals

This product is UL recognized (UL 969). The UL file number is MH27538.

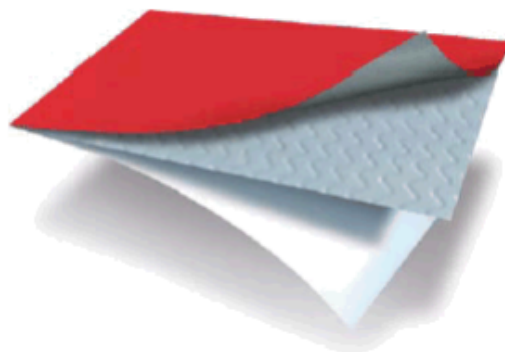
Shelf Life

To obtain optimal performance, use this product within two years of the date of manufacture, under storage conditions as defined by FINAT (20-25°C; 40-50%RH). Prolonged storage outside these conditions might reduce the shelf life.

AA948

Fasson ®

PVC OUTDOOR MATT WH AL170-BG42WH FSC



PVC OUTDOOR MATT WH

AL170

BG42WH FSC



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This is an automatically generated datasheet. All data to be considered as typical values and subject to change without prior notice. Further testing is always recommended.

If you would like to make a suggestion or comment on this datasheet, please send an email to datasheet.mgmt@eu.averydennison.com

Appendix

UL recognition

This product meets the requirements as stated in UL 969, and is UL recognized for indoor and outdoor use. The UL file number is MH27538. For specific information on approved conditions, see appendix.

Flammability

This material is self-extinguishing to the first measuring mark, according to FMVSS 302.

Test results according to FMVSS 302

Burning data :

	Specimen				
	#1	#2	#3	#4	#5
longitudinal					
Single Values Burning Distance (mm)	0	0	0	0	0
Single Values Burning Time (s)	0	0	0	0	0
Single Values Burning Rate (mm/min)	-	-	-	-	-
Mean Value Burning Rate (mm/min)	0				

	Specimen				
	#1	#2	#3	#4	#5
lateral					
Single Values Burning Distance (mm)	0	0	0	0	0
Single Values Burning Time (s)	0	0	0	0	0
Single Values Burning Rate (mm/min)	-	-	-	-	-
Mean Value Burning Rate (mm/min)	0				

Compliance with BS 5609

This material complies with BS 5609, Section two, Marine Immersion Test.

Performance Data

Note: the following technical data should be considered representative or typical only and should not be used for specification purposes.

Peel Adhesion:

FTM1: 180°, 300 mm/min, dwell time: 48 hours

Surface	N/25mm
ABS	19,5
Aluminum	23,0
Automotive lacquered panels	23,0
Glass	26,0
HDPE	6,0
LDPE	3,8
PA6	20,0
Stainless Steel	22,0

Appendix

Thermal Transfer Printing:

Printability – Physical Resistance

Flat head printers (tests were performed with the printer Zebra XII 140):

Ribbon	Settings speed energy		Print Quality	ANSI Grade	Scratch resistance	Tape resistance
Armor AXR7+	3	20	+	A	++	++
Armor AXR8	3	30	++	B	++	++
Dai Nippon R300	3	30	+	B	++	++
Dai Nippon R510	3	20	+	A	++	++
limak SP330	3	30	++	B	++	++
Ricoh B110Cx	3	10	+	A	++	++

Near edge printers (tests were performed with the printer Avery TTX 450 – Near Edge):

Ribbon	Settings	Print Quality	ANSI Grade	Scratch resistance	Tape resistance
Armor APX650	5 "/s	++	A	++	+
Ricoh B120E	7 "/s	++	A	++	-

ANSI (American National Standards Institute) Grade: information about barcode quality

A: excellent B: good C: acceptable D: readable with difficulty

++: excellent +: good o: acceptable -: poor

Chemical Resistance

The printed samples were wetted on the surface with a soft clean cotton cloth soaked in the test solution by wiping 10 times back and forth with light pressure. After 5 seconds they were dried with a clean dry soft cloth. After 15 minutes the evaluation took place.

	AXR7+	AXR8	R300	R510	SP330	B110Cx	APX650	B120 E
Ad Blue	+	+	+	+	+	+	+	+
Anti-Freeze	+	+	+	+	+	+	+	+
Biodiesel	+	+	+	+	+	+	-	-
Bioethanol E85	-	+	+	+	+	0	-	-
Brake fluid	+	+	-	+	+	+	-	-
Cleaner solvent	+	+	+	+	+	+	-	-
Engine oil	+	+	+	+	+	+	-	-
Gasoline	-	-	-	+	-	-	-	-
Hard wax polish	+	+	+	+	+	+	-	-
Isopropanol	+	+	+	+	+	+	-	-

+: good (no change) o: acceptable (minor change, still readable) -: poor

Chemicals:

Ad Blue: Aral, Anti-Freeze: Speedfrost "Speedfroil" 1:1 in water, Bioethanol E85: CropEnergies CropPower85

Brake Fluid: DOT 4 Synthetic (One Way), Cleaner Solvent: "Caramba" Cold Cleaner, Engine Oil: TOTAL quartz 700, 10 W 40

Gasoline: TOTAL Euro 95, Hard Wax Polish: „Nigrin“ Hard Wax Polish

Appendix

Compliance Data

UL – Underwriters Laboratories (UL 969, Category PGJ12)

File Number: MH27538, Category PGJ12

This material is UL recognized for indoor and outdoor use where exposed to high humidity or occasional exposure to water.

Application Surface	Max Temp (°C)	Min Temp (°C)
Acrylic paint	+60	-40
ABS	+60	-40
Alkyd paint	+60	-40
Aluminum	+60	-40
Galvanized steel	+60	-40
Polyester paint	+60	-40
Polypropylene	+60	-40
Polystyrene	+60	-40
Stainless steel	+60	-40

The UL certification includes the printing with the following thermal transfer ribbons:

Armor	AXR 600, AXR 7+
Dainippon	R510
Italgrafica	TF335P
Ricoh	B110C, B110CX
Sony Chemicals	TR5070

Application on cables and wires

File Number: MH26355

ANSI/UL 817: Cord Sets and Power-Supply Cords and

ANSI/UL 2238: Cable Assemblies and Fittings for Industrial Control and Signal Distribution

Cord Type	Min. diameter	Indoor Use	Outdoor Use
UL Style 20276 (Round)	6,8 mm	Yes	No
UL Style 2560 (Round)	6,6 mm	Yes	Yes

The UL certification includes the printing with one or more of the following thermal transfer ribbons: Armor "AXR7+" and DaiNippon "R510", Iimak "SP-300" and Ricoh "B110CR".

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