

Facestock

A matt white glossy polymeric plasticised vinyl film.

Basis Weight	113 g/m ²	ISO 536
Caliper	80 µm	ISO 534
Maximum Service Temperature	110 °C	

Adhesive

AL170 is a strong, permanent, solvent-based acrylate adhesive.

Liner

BG42 white, a supercalendered glassine paper.

Basis Weight	64 g/m ²	ISO 536
Caliper	57 µm	ISO 534
Transparency	50 %	DIN 53147

Laminate

Total Caliper	162 µm±10%	ISO 534
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Performance data

Initial Tack	10 N/25mm	FTM 9 Glass
Min. Application Temp.	0 °C	
Service temperature	-80°C to 110°C	
Peel Adhesion 90°	9 N/25mm	FTM 2 st.st. 24hr

Adhesive Type	Solvent Acrylic
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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) can be expected. The material is self-extinguishing.

Conversion & printing

PVC outdoor matt white features good thermal transfer printability; for good abrasion resistance we recommend the use of resin ribbons. This product is qualified by Durst for UV inkjet printing. The material shows good die cutting performance.

Special Approvals

The adhesive meets the requirements of the so-called "Toy Standard" EN 71-3.

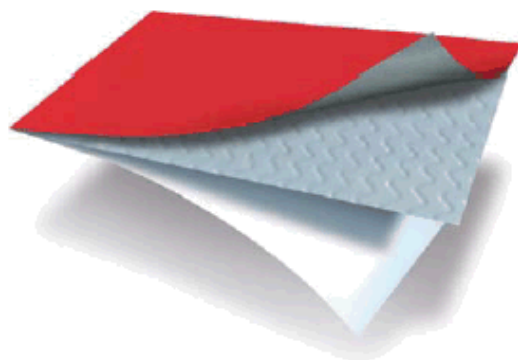
This product is UL recognized for indoor and outdoor use, the file number is MH27538.

Shelf life

Two years under storage conditions as defined by FINAT (20-25°C; 40-50%RH)

AA948

Fasson ® PVC OUTDOOR MATT WH - AL170-BG42WH



PVC OUTDOOR MATT WH

AL170

BG42WH

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

Thermal Transfer Printing:

Printability – Physical Resistance

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

Ribbon	Settings <i>speed energy</i>		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 1: 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
Aluminium	23,0
Automotive lacquered panels	23,0
Glass	26,0
HDPE	6,0
LDPE	3,8
PA6	20,0
Stainless Steel	22,0

Appendix 2: Compliance Data

UL – Underwriters Laboratories

File Number: MH27538 (UL969)

This material is UL recognized for exposure indoors and outdoors to high humidity or occasional exposure to water.

Substrate	Minimum Temperature (°C)	Maximum Temperature (°C)
Acrylic paint	-40	+60
Alkyd paint	-40	+60
Aluminum	-40	+60
Galvanized steel	-40	+60
Polyester paint	-40	+60
Stainless steel	-40	+60
Polypropylene	-40	+60
Polystyrene	-40	+60
ABS	-40	+60

The UL certification includes the printing with one or more of the following thermal transfer ribbons: Armor "AXR7+", "AXR600", DaiNippon "R510", Ricoh "B110CX", "B110C" and Sony "TR5070".

Avery Dennison Materials Group Europe

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Warranty

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