

Facestock

A platinum polyester film with backside metallization. The smooth surface is covered with a topcoat providing very good ink anchorage.

Basis Weight	70 g/m ²	ISO 536
Caliper	51 µm	ISO 534

Adhesive

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

Liner

BG45 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	133 µm±10%	ISO 534
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Performance Data

Initial Tack	9 N/25mm	FTM 9 Glass
Peel Adhesion 90°	12.5 N/25mm	FTM2 st.st.
Min. Application Temp.	0 °C	
Service Temperature	-80 °C to 150 °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

This product was specially developed for industrial labels and thermal transfer applications. The main area of application is the labeling of industrial products. Nameplates and logistical labels are typical examples.

Conversion and Printing

This product is used in industrial labels and thermal transfer applications. Thanks to the special surface coating, excellent results can be achieved with thermal transfer printers equipped with conventional or near-edge print heads, using resin ribbons. This film can also be printed by all conventional roll label techniques.

Compliance and Approvals

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

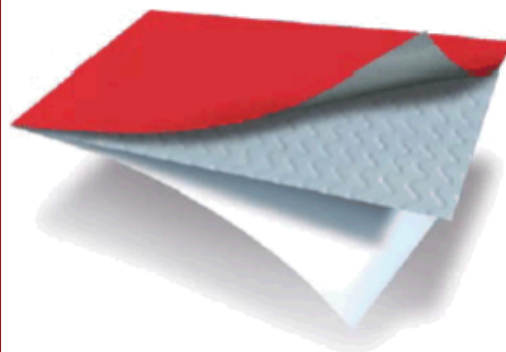
Shelf Life

To obtain optimal performance, use this product within half a year 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.

BS912

Fasson®

TR PET PLATINUM TC19 AL170-BG42WH



TR PET PLATINUM TC19

AL170

BG45WH

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 and CSA recognition

This product meets the requirements as stated in UL 969 and CSA C22.2 No. 0.15 for indoor use. The UL file number is MH27538. For specific information on approved conditions, see appendix.

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	15,0
Aluminum	14,0
Automotive lacquered panels	15,5
Glass	16,5
HDPE	3,5
LDPE	0,8
PA6	15,5
Stainless Steel	19,0

Chemical Resistance:

The performance results are based on 4 hours immersions at room temperature unless otherwise noted. Samples were applied to the test panel and conditioned for 24 hours before immersion and evaluated immediately upon removal. Peel adhesion was measured according to FTM1.

Chemical	Test Substrate	N/25mm	Visual appearance	Edge Penetration
Ad Blue	Aluminium	14,0	No change	0 mm
Biodiesel	Glass	20,0	No change	0 mm
Bioethanol E85	Glass	17,0	No change	2 mm
Brake Fluid	Glass	16,0	No change	0 mm
Diesel	Glass	19,0	No change	0 mm
Engine Oil	Glass	20,5	No change	0 mm
Gasoline	Glass	14,0	No change	6 mm
Heptane	Glass	16,0	No change	4 mm
Water, distilled	Aluminium	14,0	No change	0 mm

Chemicals: Ad Blue: Aral, Bioethanol E85: CropEnergies CropPower85, Brake Fluid: DOT 4 Synthetic (One Way) Diesel: TOTAL, Engine Oil: TOTAL quartz 700, 10 W 40, Gasoline: TOTAL Euro 95

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	++	B ¹	++	++
Armor AXR8	4	30	++	C ¹	++	++
DNP R300	3	30	++	C ¹	++	++
DNP R510	3	20	++	B ¹	++	++
limak SP330	4	30	++	C ¹	++	++
Ricoh B110CX	3	10	+	C ¹	++	+

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 AXR 600	4 "/s	+	D ¹	++	o
Armor AXR 800	4 "/s	+	D ¹	++	-
Ricoh B120 E	8 "/s	++	D ¹	o	-

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

¹ The print quality is good, but due to the reflection of metallised films the contrast is low

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	B110 CX	AXR 600	AXR 800	B120E
Ad Blue	+	+	+	+	+	+	+	+	+
Anti-Freeze	+	+	+	+	+	+	+	+	+
Biodiesel	+	+	+	+	+	+	-	o	-
Bioethanol E85	o	+	+	+	+	+	-	o	-
Brake fluid	+	+	+	+	+	+	-	o	o
Cleaner solvent	+	+	+	+	+	+	+	o	-
Engine oil	+	+	+	+	+	+	-	o	-
Gasoline	-	-	-	+	-	-	-	-	-
Hard wax polish	+	+	+	+	+	+	o	o	-
Isopropanol	+	+	+	+	+	+	-	o	-
Spirit	o	+	+	+	+	-	+	o	-

+: 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 use where exposed to high humidity or occasional exposure to water.

Application Surface	Max Temp (°C)	Min Temp (°C)
Acrylic paint	150	-40
Acrylic powder paint	150	-40
Alkyd paint	150	-40
Aluminum	150	-40
Chromate treated metal	150	-40
Galvanized steel	150	-40
Polyester paint	150	-40
Polyester powder paint	150	-40
Stainless steel	150	-40
Nylon - Polyamide	100	-40
Polyethylene terephthalate	100	-40
Polystyrene	80	-40
Polyvinyl chloride	80	-23
Acrylonitrile butadiene styrene	60	-40
Acrylic paint	150	-40
Acrylic powder paint	150	-40

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

Armor	AXR 7+. AXR 8
Dainippon	R300. R510
ITW	B324
limak	SP-330
Ricoh	B110CR

Appendix

Compliance Data

CSA – Canadian Standards Association

UL has tested this product according to the requirements described in CSA C22.2 No. 0.15.

This product is C-UL recognized for indoor use.

The details are listed in the UL file number MH27538, Category PGJ18.

Group	Application Surface	Max. Temperature (°C)
Metals	Bare, plated or enameled steel; bare, anodized or enameled aluminium	+150
Powder coated metal Group A	Polyester powder coat paint	+150
Powder coated metal Group B	Acrylic powder coat paint	+150
Plastic Group V	Polyamide, polyimide	+80
Plastic Group VI	Polystyrene, styrene acrylonitrile, ABS	+80
Plastic Group VII	PVC (rigid), PVC plasticized	+80
Plastic Group VIII	Glass-filled polyester, epoxy plastic, PET, PBT	+100

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

Armor	AXR 7+, AXR 8
Dainippon	R300, R510
ITW	B324
limak	SP-330
Ricoh	B110CR

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Warranty

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