

#### **Facestock**

A silver polyester film with backside metallisation. The surface is covered with an absorbing, matt topcoat for very good ink anchorage.

Basis Weight 80 g/m $^2$  ISO 536 Caliper 55  $\mu m$  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).

#### Laminate

Total Caliper 130 µm±10% ISO 534

#### 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 150

°C

Adhesive Coat Weight 24 g/m<sup>2</sup> 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

Transfer PET matt silver was specially developed for labels on Durables Goods, especially in the automotive industry. but also in other segments. Identification labels and logistical labels are the main applications. When printed with high quality thermal transfer ribbons, very high chemical resistance of the print can be achieved.

## Conversion and Printing

Thanks to the special surface coating, very good results can be achieved with thermal transfer printers equipped with conventional or near-edge print heads and using either wax/resin or pure resin ribbons. In addition the product can also be printed by all conventional roll label techniques, such as flexo, UV letterpress, silkscreen. Specific testing is required. For easy diecutting sharp corners should be avoided.

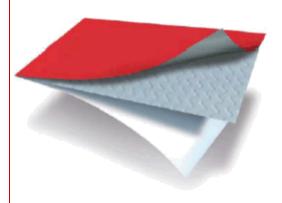
# Compliance and Approvals

This product is UL and C-UL recognized (UL 969, CSA C22.2 No. 0.15). The UL file number is MH27538.

# **AA146**

# Fasson ®

# TRANSFER PET MATT SILVER AL170-BG42WH FSC



TRANSFER PET MATT SIL-VER

AL170

BG42WH FSC



The mark of responsible forestry

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



# 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.



# UL and CSA recognition

This product meets the requirements as stated in UL 969 for indoor and outdoor use 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

Spec Code: AA146 | EAN Code: 8712739202816



#### **Thermal Transfer Printing:**

#### Printability - Physical Resistance

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

Ribbon		ings energy	Print Quality	ANSI Grade	Scratch resistance	Tape resistance
Armor AXR7+	4	15	+	D*	++	++
DNP R300	3	15	++	D*	++	+
limak SP330	3	15	++	D*	++	0
ITW B324	3	15	+	D*	++	0
Ricoh B110A	5	15	++	D*	++	++
Ricoh B110CX	3	15	+	D*	++	++

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 APR 600	6 "/s	++	D*	++	0
DNP TR4500	6 "/s	++	D*	++	0
Ricoh B120 Ex2	6 "/s	++	D*	++	++

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

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

#### **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+	R300	SP330	B324	B110A	B110 CX	APR 600	TR 4500	B120E
Ad Blue	+	+	+	+	+	+	+	+	+
Anti-Freeze	+	+	+	+	+	+	0	0	0
Biodiesel	+	+	+	+	0	+	-	-	-
Bioethanol E85	+	+	+	+	0	+	-	-	-
Brake fluid	0	0	+	+	0	0	0	0	0
Cleaner solvent	+	+	+	+	+	+	-	-	-
Engine oil	+	+	+	+	+	+	+	+	+
Gasoline	0	0	0	0	0	0	-	-	-
Hard wax polish	+	+	+	+	+	0	-	-	-
Isopropanol	+	+	+	+	+	+	0	0	0
Spirit	+	+	+	+	+	0	0	0	0

<sup>+:</sup> 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

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<sup>++:</sup> excellent +: good o: acceptable -: poor

<sup>\*:</sup> The print quality is good, but due to the reflection of metallized films the contrast is low



#### **Compliance Data**

# UL - Underwriters Laboratories (UL 969, Category PGJI2)

File Number: MH27538, Category PGJI2

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)	I	0
Acrylic paint	150	-40	Х	Х
Alkyd paint	150	-40	Х	Χ
Aluminum	150	-40	X	Χ
Galvanized steel	150	-40	Х	Х
Polyester paint	150	-40	Х	Χ
Stainless steel	150	-40	Х	Χ
Polyethylene terephthalate (PET)	100	-40	Х	-
Polypropylene (PP)	80	-40	Х	Χ
Polystyrene (PS)	80	-40	Х	Χ
Polyvinyl fluoride (PVF)	80	-23	Х	-
Acrylonitrile butadiene styrene	60	-40	Х	Χ
Acrylic paint	150	-40	Х	Х
Alkyd paint	150	-40	Х	Х

I: Indoor use O: outdoor use

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

Armor APR5, APR6, APR600, AXR 600, AXR 7+, AXR 8, AXR 800

Astro-med R-5, RV2

Dainippon R300, TR4500, TR6075

 Graficor
 GC12, GC14

 ITW
 B324

 limak
 SP-330

 Italyrafica
 TF230

Italgrafica TF330 Kurz K501

Pelikan T001, T016, T064

Ricoh B110A, B110CX, B120 EC, B120 Ex2

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#### **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 PGJI8.

Group	Application Surface	Max. Temperature (°C)
Metals	Bare, plated or enamelled steel; bare, anodized or enamelled aluminium	+150
Plastic Group III	Polycarbonate, acetates, acrylics	+80
Plastic Group V	Polyamide, polyimide	+80
Plastic Group VI	ABS, styrene, styrene acrylonitrile	+80

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

Armor APR600, AXR 7+, AXR 8 Dainippon R300, TR4500, TR6075

ITW B324 limak SP-330 Italgrafica TF330

Ricoh B110A, B110CX, B120 Ex2

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