

Facestock

A matt transparent overlaminating polyester.

Basis Weight	35 g/m ²	ISO 536
Caliper	25 µm	ISO 534

Adhesive

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

Liner

Hygroflat 80, a one side coated, bleached kraft paper.

Basis Weight	80 g/m ²	ISO 536
Caliper	78 µm	ISO 534

Laminate

Total Caliper	133 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 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 is used to create premium matt effect labels. The overlaminate protects the underlying label from abrasion and chemical attack.

The hygroflat backing paper is generally suited to the refolding demands of high-speed computer printers, providing optimum layflatness and excellent interfolding characteristics. A decurling bar might be needed for optimal results.

Conversion and Printing

This material is not equipped with a topcoat and is normally not overprinted. Due to the low calliper of this film, it can not be dispensed by itself.

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.

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.

AC747

Fasson®

OVERLAM PET 25 MATT AL170-HF80



OVERLAMINATING PET25 MAT	
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AL170	
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HF80	
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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 and CSA recognition

This product meets the requirements as stated in UL 969 and CSA C22.2 No. 0.15 for indoor and outdoor 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	11,5
Aluminium	11,5
Automotive lacquered panels	11,0
Glass	15,0
HDPE	3,0
LDPE	2,0
PA6	11,5
Stainless Steel	13,0

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
Brake Fluid	Glass	14,0	No change	0 mm
Diesel	Glass	12,7	No change	0 mm
Engine Oil	Glass	13,9	No change	0 mm
Gasoline	Glass	10,2	No change	4 mm
Heptane	Glass	11,5	No change	3 mm
Water, distilled	Aluminium	11,0	No change	0 mm

Chemicals:

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		Print Quality	ANSI Grade	Scratch resistance	Tape resistance
	speed	energy				
Ricoh B110A	3	30	+	B*	++	++
Ricoh B110CR	3	30	++	B*	++	++

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

*: Based on a white substrate. Readability may vary when applied onto different coloured substrates.

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.

	B110A	B110CR
Anti-Freeze	+	+
Brake fluid	-	+
Cleaner solvent	+	+
Engine oil	+	+
Gasoline	-	-
Isopropanol	-	+
Spirit	o	+

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

Chemicals:

Anti-Freeze: Speedfrost "Speedfroil" 1:1 in water, Brake Fluid: DOT 4 Synthetic (One Way),

Cleaner Solvent.: "Caramba" Cold Cleaner, Engine Oil: TOTAL quartz 700, 10 W 40

Gasoline: TOTAL Euro 95

Appendix

Compliance Data

UL – Underwriters Laboratories (UL969)

This material is UL recognized as pressure-sensitive overlamination for producing finished printed labels. The conditions of acceptance are:

Affixed to smooth polyester label material, maximum temperature 150°C, minimum temperature -40°C. Suitable for indoor and outdoor use, occasional exposure to gasoline splashing and lubricating oil.

Details are listed in the UL file MH27538.

The UL certification includes the printing with one or more of the following thermal transfer ribbons: Armor “AXR600”, “AXR7+”, Dainippon “R510”, “TR6075”, Iimak “SP-330”, Ricoh “B110C”, “B110CX”, “B120 EC”, Sony “TR5070”.

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 as pressure-sensitive overlamination for producing finished printed labels. The conditions of acceptance are:

Affixed to smooth polyester label material, maximum temperature 150°C. Suitable for indoor and outdoor use, occasional exposure to lubricating oil.

Details are listed in the UL file number MH27538.

The C-UL certification includes the printing with Armor “AXR7+”, “AXR8” and Dainippon “R300”.

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Warranty

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