

### Facestock

A clear glossy polymeric plasticised vinyl film.

Basis Weight	103 g/m <sup>2</sup>	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 <sup>2</sup>	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 Clear is ideal for many medium-life indoor and outdoor applications. A durability of 7 years (vertical exposure) can be expected. The durability is based on middle European exposure conditions. Actual performance life will depend on substrate preparation, exposure conditions and maintenance of the marking

### Conversion & printing

PVC Outdoor Clear features good thermal transfer printability; for good abrasion resistance we recommend the use of resin ribbons. In addition this material can be printed with UV flexo inks. It shows good die cutting performance.

### Special Approvals

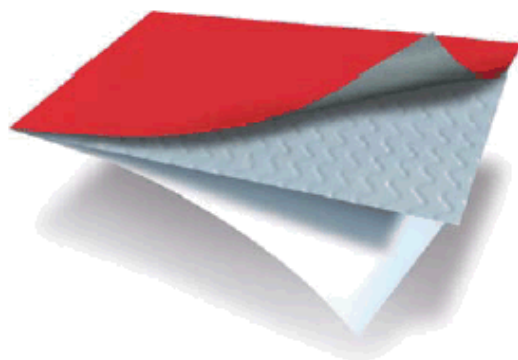
This product meets the requirements as stated in UL 969 and CSA C22.2 No. 0.15 for indoor and outdoor use. The UL file number is MH27538.

This product meets the requirements as stated in ANSI/UL 817 (Cord Sets and Power-Supply Cords) and ANSI/UL 2238 (Cable Assemblies and Fittings for Industrial Control and Signal Distribution). The UL file number is MH26355.

### Shelf life

## AS880

### Fasson ® PVC OUTDOOR CLEAR - AL170- BG42WH



PVC OUTDOOR CLEAR

AL170

BG42WH

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

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](mailto:datasheet.mgmt@eu.averydennison.com)

## 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

## Thermal Transfer Printing:

### Printability – Physical Resistance

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

<b>Ribbon</b>	<b>Settings</b> <i>speed energy</i>		<b>Print Quality</b>	<b>ANSI Grade</b>	<b>Scratch resistance</b>	<b>Tape resistance</b>
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):

<b>Ribbon</b>	<b>Settings</b>	<b>Print Quality</b>	<b>ANSI Grade</b>	<b>Scratch resistance</b>	<b>Tape resistance</b>
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.

	<b>AXR7 +</b>	<b>AXR8</b>	<b>R300</b>	<b>R510</b>	<b>SP330</b>	<b>B110Cx</b>	<b>APX650</b>	<b>B120 E</b>
Ad Blue	+	+	+	+	+	+	+	+
Anti-Freeze	+	+	+	+	+	+	+	+
Biodiesel	+	+	+	+	+	+	-	-
Bioethanol E85	-	+	+	+	+	o	-	-
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 2: Compliance Data

### UL – Underwriters Laboratories (UL969)

This material is UL recognized for exposure indoors and outdoors to high humidity or occasional exposure to water. Details are listed in the UL file MH27538.

Application Surface	Minimum Temperature (°C)	Maximum Temperature (°C)
Stainless Steel	-40	+80

### 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 and outdoor use, where exposed to wet locations. Details are listed in the UL file number MH27538.

Group	Application Surface	Max. Temperature (°C)
Metals	Bare, plated, painted or enamelled steel or aluminum	+80

### 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	Additional Conditions
UL Style 20276 (Round)	6,8 mm	Yes	Yes	OR
UL Style 2560 (Round)	6,6 mm	Yes	Yes	OR
UL Style 2464 (Round)	4,0 mm	Yes	Yes	OR

OR: Complies with Oil Resistance requirements

The UL certification includes the printing with one or more of the following thermal transfer ribbons:  
Armor "AXR7+" and DaiNippon "R300".

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**Warranty**

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