BJ140

Fasson ®

TRANSFER PET WHITE CR AL170-BG42WH FSC

Facestock

A white polyester film with a matt topcoat designed to receive the Ricoh B110CU thermal transfer ribbon for extreme chemical resistance.

Basis Weight	79 g/m²	ISO 536
Caliper	56 µm	ISO 534
Tensile strength MD	180 N/15mm	ISO 527-1-3
Tensile strength CD	220 N/15mm	ISO 527-1-3

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).

Basis Weight	63 g/m²	ISO 536
Caliper	56 µm	ISO 534
Transparency	50 %	DIN 53147

Laminate

Total Caliper	136 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/m²	FTM12
Adhesive Type	Solvent Acrylic	

Adhesive Performance

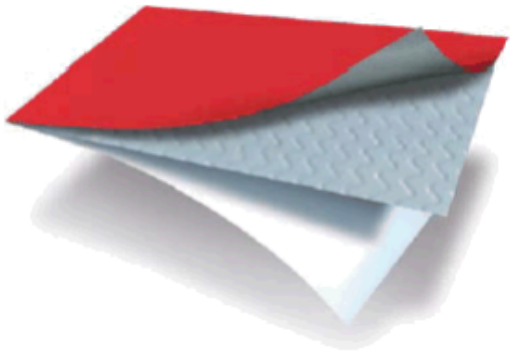
AL170 is distinguished by very high ageing stability and features excellent resistance against chemicals, heat and UV light. It has a high peel adhesion on high and medium surface energy substrates.

Applications and Use

This product is specially designed for labeling durable goods where resistance to extremely aggressive chemicals is required. The facematerial has been specifically engineered to accept the Ricoh B110CU ribbon and stay anchored even when exposed to chemicals such as Isopropyl alcohol (IPA), acetone and gasoline. The main area of application for this product is automotive and industrial labeling where prolonged exposure to aggressive chemicals is expected.

Conversion and Printing

This material is designed to accept thermal transfer print using the Ricoh B110CU ribbon. It can be printed by conventional roll label techniques, such as flexo, UV letterpress, silkscreen. Specific testing is recommended. For easy diecutting sharp corners should be avoided.



TRANSFER PET WHITE CR	
AL170	
BG42WH FSC	

FSC www.fsc.org FSC® C004451

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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

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.

Appendix

Compliance Data

UL – Underwriters Laboratories (UL 969, Category PGJI2)

File Number: MH27538, Category PGJI2

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
Alkyd paint	150	-40
Aluminum	150	-40
Galvanized steel	150	-40
Polyester paint	150	-40
Stainless steel	150	-40
Polycarbonate	80	-40
Polypropylene (PP)	80	-40
Polystyrene (PS)	80	-40
Acrylonitrile butadiene styrene	60	-40
Polyester powder paint	150	-40

I: Indoor use O: outdoor use

The UL certification includes the printing with the thermal transfer ribbon Ricoh “B110CU”.

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

The C-UL certification includes the printing with the thermal transfer ribbon Ricoh “B110CU”.

Details can be found
- on the Yellow Card (https://iq.ul.com/ul/cert.aspx?ULID=104706516)
- the UL Online Certification Directory (https://iq.ul.com/labels/)
- or via label.support@eu.averydennison.com

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
Ricoh B110CU	4	25	++	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

Chemical Resistance

The material was printed with the TT ribbon Ricoh B110CU. Printed samples were rubbed 500 times (250 double strokes) with a 200 grams weight covered by a cotton fabric soaked in the solvent. Visual examination took place.

Chemical	Number of double strokes	Fading of print	Performance
Ethanol	250	No change	+++
IPA	250	No change	+++
Gasoline SP95	250	Fading starts after 85 double strokes	++
Diesel	250	No change	+++
Brake fluid	250	No change	+++
Engine oil	250	No change	+++
Windshieldwasher	250	No change	+++
MEK	250	Fading starts after 185 double strokes	++
Xylene	250	No change	+++
Toluene	250	No change	+++
Acetone	250	No change	+++
Hexane	250	No change	+++

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Warranty
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