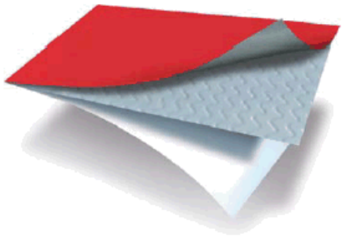
AA640

Fasson ®
TRANSFER PET WHITE PT - AL170-BG42WH



TRANSFER PETWH PT

AL170

BG42WH

Facestock

A gloss white polyester film. The smooth surface is print treated to achieve good TT printability and ink anchorage.

Basis Weight	71 g/m²	ISO 536
Caliper	50 µm	ISO 534

Adhesive

AL170 is a strong, permanent, solvent-based acrylate adhesive.

Liner

BG42 white, a supercalendered glassine paper.

Basis Weight	64 g/m²	ISO 536
Caliper	57 µm	ISO 534
Transparency	50 %	DIN 53147

Laminate

Total Caliper	132 µm±10%	ISO 534

Performance data

Initial Tack	10 N/25mm	FTM 9 Glass
Min. Application Temp.	0 °C	
Service temperature	-80°C to 150°C	
Peel Adhesion 90°	9 N/25mm	FTM 2 st.st. 24hr
Adhesive Type	Solvent Acrylic	
Adhesive weight	24 g/m²	FTM12

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 White PT is specifically developed for Durable Goods labelling. Typical examples are identification and warning labels on electronic devices and household appliances.

Conversion & printing

The glossy, smooth surface is print treated and can be thermal transfer printed, the best results can be obtained with resin ribbons. This product is qualified by EFI Jetrion and Durst for UV inkjet printing. It can be printed by all conventional print technologies.

Special Approvals

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

This product meets the requirements as stated in UL 969 for indoor use. The UL file number is MH27538.

Shelf life

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

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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 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	15,0
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 (mm)
Ad Blue	Aluminium	18,0	No change	0
Biodiesel	Glass	20,0	No change	0
Bioethanol E85	Glass	17,0	No change	2
Brake Fluid	Glass	16,0	No change	0
Diesel	Glass	19,0	No change	0
Engine Oil	Glass	20,5	No change	0
Gasoline	Glass	14,0	No change	6
Heptane	Glass	16,0	No change	4
Water, distilled	Aluminium	19,0	No change	0

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

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				
Armor AXR7+	3	20	++	B	++	++
Dai Nippon R300	4	15	++	A	++	++
Dai Nippon R510	2	20	++	A	++	++
Ricoh B110Cx	3	10	+	A	++	++

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	o	D	++	o
Armor AXR 800	4 ”/s	++	C	++	-
Ricoh B120 E	4 ”/s	++	C	++	++

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.

	AXR 7+	R300	R510	B110Cx	AXR6 00	AXR80 0	B120 E
Ad Blue	+	+	+	+	+	+	+
Anti-Freeze	+	+	+	+	+	+	+
Biodiesel	+	+	+	+	-	-	-
Bioethanol E85	-	+	+	-	-	-	-
Brake fluid	-	o	+	+	-	-	-
Cleaner solvent	o	+	+	+	+	+	+
Engine oil	+	+	+	+	-	-	-
Gasoline	-	-	+	-	-	-	-
Hard wax polish	-	o	+		-	-	-
Isopropanol	o	+	+	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 2:

Compliance Data

UL – Underwriters Laboratories (UL969)

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	Maximum Temperature (°C)	Minimum Temperature (°C)
Acrylic paint	150	-40
Alkyd paint	150	-40
Aluminum	150	-40
Galvanized steel	150	-40
Polyester paint	150	-40
Stainless steel	150	-40
Nylon - Polyamide	100	-40
Polycarbonate	100	-40
Polypropylene	80	-40
Polystyrene	80	-40
Acrylonitrile butadiene styrene (ABS)	60	-40

The UL certification includes the printing with the following thermal transfer ribbons:
Armor “AXR 600”, “AXR7+”, Dainippon “R510”, Italgrafica “TF335P”, Ricoh “B110C”, “B110CR”, Sony Chemicals “TR5075”.

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