

**AC393****Fasson ®  
TRANSFER PET TRANS  
TOP - AL170-BG42WH**

## Key features

- > Excellent TT printability.
- > High chemical resistance of TT print against harsh chemicals.
- > Suitable for UV inkjet printing, qualified by EFI Jetrion and Durst.

- > Solvent acrylic adhesive, distinguished by its excellent resistance against harsh chemicals, UV light and heat; for labelling metal or other high surface energy substrates.
- > UL recognised label material.

### Facestock

A gloss transparent polyester film. The smooth surface is covered with a topcoat for very good ink anchorage.

Basis Weight	71 g/m <sup>2</sup>	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/m <sup>2</sup>	ISO 536
Caliper	57 µm	ISO 534
Transparency	50 %	DIN 53147

### Laminate

Total Caliper	132 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 150°C	
Peel Adhesion 90°	9 N/25mm	FTM 2 st.st. 24hr

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 trans TOP is designed for conversion into identification, warning and tracking labels for durable goods and other industrial products. Thanks to the special surface coating, variable information such as batch and part numbers can be printed by thermal transfer. Transfer PET trans Top can also be used as an overlamine to protect the underlying print and improve the rigidity of the base label.

### Conversion & printing

Very good results can be achieved with thermal transfer printers equipped with conventional or near-edge print heads using resin ribbons. This product is qualified by EFI Jetrion and Durst for UV inkjet printing. Transfer PET trans TOP can also be printed by all conventional roll label techniques, including flexo, UV letterpress, silkscreen.

For easy diecutting sharp corners should be avoided.

### Special Approvals

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

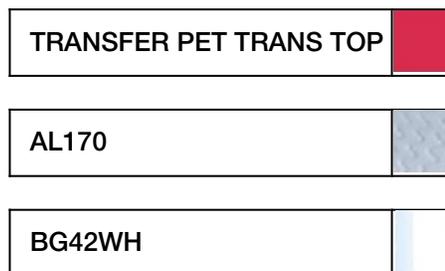
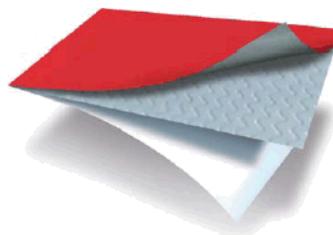
This product is UL recognized for indoor and outdoor use, the file number is MH27538.

### Shelf life

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

## AC393

### Fasson ® TRANSFER PET TRANS TOP - AL170-BG42WH



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	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	++	A*	++	++
Armor AXR8	3	15	++	A*	++	++
DNP R300	3	15	++	A*	++	++
DNP R510	3	20	++	A*	++	++
limak SP330	3	15	++	A*	++	++
ITW B324	3	15	++	A*	++	++
Ricoh B110CR	3	15	++	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	+	A*	++	o
Armor AXR 800	4 "/s	+	B*	++	o
Ricoh B120 E	4 "/s	++	A*	+	+

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 +	AXR8	R300	R510	SP330	B324	B110 CR	AXR 600	AXR 800	B120 E
Ad Blue	+	+	+	+	+	+	+	+	+	+
Anti-Freeze	+	+	+	+	+	+	+	+	+	+
Biodiesel	+	o	+	+	+	+	+	-	o	-
Bioethanol E85	-	+	+	+	+	+	+	-	o	-
Brake fluid	-	+	+	+	o	+	+	-	o	-
Cleaner solvent	+	+	+	+	+	+	+	-	-	-
Engine oil	+	+	+	+	+	+	+	+	+	o
Gasoline	-	o	-	+	-	-	-	-	-	-
Hard wax polish	+	+	+	+	+	+	+	-	-	-
Isopropanol	+	+	+	+	+	+	+	-	o	-
Spirit	-	+	+	+	+	+	+	-	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

## Compliance Data

## UL – Underwriters Laboratories

File Number: MH27538

This material is UL recognized for exposure indoors and outdoors to high humidity or occasional exposure to water.

Application Surface	Minimum	Maximum
	Temperature (°C)	Temperature (°C)
Acrylic paint	-40	+150
Alkyd paint	-40	+150
Aluminum	-40	+150
Galvanized steel	-40	+150
Polyester paint	-40	+150
Stainless steel	-40	+150
Polypropylene	-40	+80
Polystyrene	-40	+80
ABS	-40	+60

The UL certification includes the printing with one or more of the following thermal transfer ribbons:

Astro-Med "RF", "RY", "RAF Blue", "R-5", Armor "AXR8", "AXR600", "AXR-7+", Coding Products "5940", "5640 Blue", "5440 Red", DNP "R-300", "R-510", "R-510 Green", "R-510 Blue", "R-510 Red", "TR4070", "TR6070", "TR6075", "Signature Series Resin", Dasco "DR-74", "DR-84", Datamax "SDR-A", "SDR-D", "SDR-5", "SDR-6", "SDR", "PGR", "SDR-7", "SDR-4", "SDR Millenium", Iimac "SH-36", "SP-330", "SP-410", "Primemark", "Primemark 255", Intermec "053258-2", "054048-4", "TMX 3200", "TMX 1500", ITW "B324", "R-90", "R-91", "M-95", Japan Pulp and Paper "Resin 1", "Resin 2 Blue", "Resin 2 Green", "Resin 2 Red", Japan Pulp and Paper GmbH "Sigma P", Kurz "K-300", "K-500", "K-501", Mid-City Columbia "CGL-80HE", "MCC-23HE", Monarch "9446", NCR "Promark 3", "Pacesetter", "Ultra V", "Matrix Resin", "Perma Max", "K3", Peak "Ultra Premium", "Ultra Extreme", Ricoh "B110C", "B110CR", "120EC", "B110CX", RSI ID Technologies "Pressiza H", "Pressiza R", "Pressiza S", "Pressiza K", "Pressiza X", Sato "Premier 1", Sony "4072", "4080", "4075", "4085", "5070", "4571", "TRX-75", Union Chemcar "US-300", United Barcode Industries "HR06", Zebra "5095", "5175", "5100", "5463", "Z-1400", "Z-3100", "Z-4100" and "5555".

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#### Warranty

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