

**AF029****Fasson ®  
TRANSFER PET WHITE PT  
- S8001-BG42WH**

## Key features

- > Good TT printability.
- > Suitable for UV inkjet printing, qualified by EFI Jetrion and Durst.

- > Acrylic adhesive offering high tack and peel adhesion on a wide variety of substrates, including low surface energy plastics.
- > UL recognised label material.

### Facestock

A gloss white polyester film with 'print treated' surface for enhanced ink adhesion

Basis Weight	70 g/m <sup>2</sup>	ISO 536
Caliper	50 µm	ISO 534

### Adhesive

S8001 is a permanent acrylic adhesive with good initial tack and high ultimate adhesion onto a variety of substrates including apolar plastics and lacquers.

### 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	134 µm±10%	ISO 534
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### Performance data

Initial Tack	15 N/25mm	FTM 9 Glass
Service temperature	-40°C to 150°C	
Peel Adhesion 90°	9 N/25mm	FTM 2 st.st. 24hr

Adhesive Type	Emulsion Acrylic
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### Adhesive Performance

S8001 offers good resistance to solvents and cleaners. The adhesive has a high cohesion and can be used for labelling curved or round substrates.

### Applications and use

The product is designed for overprinting with thermal transfer ribbons and labelling areas where a high degree of durability is required.

S8001 is specifically developed for labelling electronic, home appliance and other electrical items due to its good bonding performance on a wide range of polar and apolar surfaces including metals, polycarbonate, ABS and polypropylene. S8001 is available worldwide meaning it is suitable for global manufacturers seeking to consolidate label specifications around the world.

### Conversion & printing

The film is pre treated on both sides to promote adhesion to most printing inks and industrial coatings. It can thus be printed with all common printing techniques, like flexo, UV letterpress or thermal transfer.

### UL Recognition

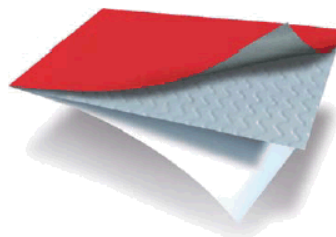
This product is UL recognized for indoor and outdoor use, the file number is MH27538.

### Shelf life

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

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

## Appendix 1

### 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	13,0
Aluminium	11,5
Automotive lacquered panels	10,5
Glass	12,0
HDPE	7,5
LDPE	8,0
PA6	10,5
Stainless Steel	15,0

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. The peel adhesion was measured according to FTM1.

Chemical	Test Substrate	N/25mm	Visual appearance	Edge Penetration (mm)
Ad Blue	Aluminium	11,5	No change	0
Biodiesel	Glass	11,0	No change	0
Bioethanol E85	Glass	11,5	No change	2
Brake Fluid	Glass	11,0	No change	0
Diesel	Glass	11,0	No change	0
Engine Oil	Glass	11,5	No change	0
Gasoline	Glass	8,0	No change	3
Heptane	Glass	10,0	No change	3
Water, distilled	Aluminium	7,5	No change	0
All purpose cleaner	Glass	8,5	No change	0
Bathroom cleaner	Glass	9,0	No change	0
Bleach	Glass	7,5	No change	0
Dishwashing detergent	Glass	9,0	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

All Purpose Cleaner: Sagrotan Sea Breeze (Reckitt Benckiser), Bathroom Cleaner: Cillit Antikalk (Reckitt Benckiser)

Bleach: Danklorix (Colgate Palmoliv), Dishwashing detergent: Fairy Lemon (Procter & Gamble)

## 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
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	0	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.

	AXR7+	R300	R510	B110Cx	AXR600	AXR800	B120 E
Ad Blue	+	+	+	+	+	+	+
Anti-Freeze	+	+	+	+	+	+	+
Biodiesel	+	+	+	+	-	-	-
Bioethanol E85	-	+	+	-	-	-	-
Brake fluid	-	o	+	+	-	-	-
Cleaner solvent	o	+	+	+	+	+	+
Engine oil	+	+	+	+	-	-	-
Gasoline	-	-	+	-	-	-	-
Hard Wax	-	o	+		-	-	-

Polish							
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

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

Surface	Minimum Temperature (°C)	Maximum Temperature (°C)	I	I/O
Acrylic paint	-40	+150	X	X
Acrylic powder paint	-40	+150	X	X
Alkyd paint	-40	+150	X	X
Aluminum	-40	+150	X	X
Epoxy paint	-40	+150	X	X
Epoxy powder paint	-40	+150	X	X
Galvanized steel	-40	+150	X	X
Polyester paint	-40	+150	X	X
Polyester powder paint	-40	+150	X	X
Polyurethane powder paint	-40	+150	X	X
Porcelain	-40	+150	X	X
Stainless steel	-40	+150	X	X
Glass	-40	+125	X	X
Melamine	-40	+100	X	X
Nylon – Polyamide	-40	+100	X	X
Phenolic - Phenol Formaldehyde	-40	+100	X	X
Polycarbonate	-40	+100	X	X
Unsaturated polyester - thermoset	-40	+100	X	X
Acrylonitrile butadiene styrene (ABS)	-40	+80	X	X
Polybutylene terephthalate (PBT)	-40	+80	X	X
Polyethylene (PE)	-	+80	X	-
Polyphenylene oxide/ether (PPOX)	-40	+80	X	X
Polypropylene (PP)	-29	+80	X	X
Polystyrene (PS)	-40	+80	X	X
Polyvinyl chloride (PVC)	-40	+80	X	X
Polyvinyl fluoride	-40	+80	X	X

I: indoors, I/O: indoors and outdoors

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

Armor "AXR-7+", "AXR600", DNP "R510", Ricoh "B110C", "B110CX", Sony "5075".

**Avery Dennison Materials Group Europe**

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**Warranty**

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