AF030

Fasson ®
TRANSFER PET MT WH
TC6 - S8001-BG42WH

Key features

> Economic matt white polyesterfilm for labelling durable goods.

> Good TT printability.

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

> UL and CSA recognised label material.

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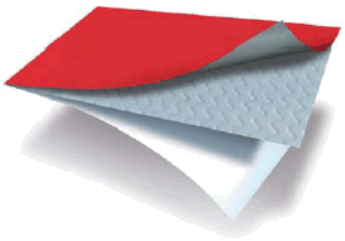

TRANSFER PET MATT WH TC6	
S8001	
BG42WH	

Facestock
A polyester based film with a satin-matt coating.

Basis Weight	55 g/m²	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/m²	ISO 536
Caliper	57 µm	ISO 534
Transparency	50 %	DIN 53147

Laminate

Total Caliper	134 µm±10%	ISO 534

Performance data

Initial Tack	15 N/25mm	FTM 9 Glass
Min. Application Temp.	5 °C	
Service temperature	-40°C to 150°C	
Peel Adhesion 90°	9 N/25mm	FTM 2 st.st. 24hr
Adhesive Type	Emulsion Acrylic	
Adhesive weight	27 g/m²	FTM12

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
Transfer PET matt white TC6 was specifically developed for labelling electronic, home appliance and other electrical items. The surface is designed for thermal transfer and conventional print and featues good chemical resistance.
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 was developed for producing industrial labels carrying thermal transfer print. Best results can be achieved using resin or wax/resin ribbons. This product is qualified by EFI Jetrion and Durst for UV inkjet printing. Additionally it can also be printed by all conventional roll label techniques, such as flexo, UV letterpress, silkscreen. For easy diecutting sharp corners should be avoided.

UL and CSA Recognitions
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.

Shelf life

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

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. 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 APR6	4	30	++	A	o	-
Armor AXR7+	3	15	++	A	+	++
DNP R300	3	15	+	A	+	++
Iimak SP330	3	15	++	A	+	++
ITW B324	3	15	+	A	+	++
Ricoh B110A	4	30	++	A	-	-
Ricoh B110CR	3	15	++	A	+	++

Near edge printers (tests were performed with the printer Avery TTX450 - Near Edge):

Ribbon	Settings	Print Quality	ANSI Grade	Scratch resistance	Tape resistance
Armor APR 600	6 ”/s	++	A	-	++
DNP TR4500	7 ”/s	++	A	-	++
Ricoh B120E	6 ”/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.

	APR6	AXR7+	R300	SP330	B324	B110A	B110 CR	APR600	TR4500	B120E
Ad Blue	+	+	+	+	+	+	+	+	+	+
Anti-Freeze	+	+	+	+	+	+	+	+	+	+
Biodiesel	-	+	+	+	+	-	+	-	-	-
Bioethanol E85	-	-	-	-	-	-	-	-	-	-
Brake fluid	-	-	+	o	o	-	+	-	-	-
Cleaner solvent	-	+	+	+	+	-	+	-	-	-
Engine oil	-	+	+	+	+	+	+	+	+	+
Gasoline	-	-	-	-	-	-	-	-	-	-
Hard Wax Polish	-	o	o	-	-	o	+	-	-	-
Isopropanol	-	+	+	+	+	-	+	-	-	-
Spirit	-	+	+	+	+	-	+	-	-	-

+: 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
File Number: MH27538

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

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

I: indoors, I/O: indoors and outdoors
O: Occasional exposure to lubricating oils

The UL certification includes the printing with one or more of the following thermal transfer ribbons:
Armor "AXR-7+", DNP "TR4070", Ricoh "B110A", Zebra "5095".

Appendix 2:
Compliance Data

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 for Type A labels. The details are listed in the UL file number MH27538.

Group	Application Surface	Max. Temperature (°C)
Metal	Bare, plated or enamelled steel; bare, anodized or enamelled aluminium	+125
Glass		+125
Plastic Group I	Phenolic, melamines, urea fomaldehyde	+100
Plastic Group III	Polycarbonate, acetates, acrylics	+80
Plastic Group IV	Polyethylene, polypropylene, polybutylene	+80
Plastic Group V	Polyamide, polyimide	+80
Plastic Group VI	ABS, styrene, styrene acrylonitrile	+80
Plastic Group VII	PVC (rigid), PVC plasticized	+80
PVF		+80

The C-UL certification includes the printing with:
Armor “AXR7+”, DNP “R300”, Iimak “SP330”, ITW “B324”, Ricoh “B110CR”.

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