LB452

Fasson ®

TRANSFER rPET WHITE TOP S8002-BG42WH

Facestock

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

The film is produced using 70 % chemically recycled Post Consumer Recycled (PCR) polyester.

Basis Weight	71 g/m²	ISO 536
Caliper	50 µm	ISO 534
Tear Strength MD	117 N/15mm	ASTM D-1922

Adhesive

S8002 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	133 µm±10%	ISO 534

Performance Data

Initial Tack	12 N/25mm	FTM 9 Glass
Peel Adhesion 90°	10.5 N/25mm	FTM2 st.st.
Min. Application Temp.	5 °C	
Service Temperature	-40 °C to 150 °C	
Adhesive Coat Weight	27 g/m²	FTM12
Adhesive Type	Emulsion Acrylic	

Adhesive Performance

S8002 offers good initial tack and high ultimate adhesion onto a variety of substrates including apolar plastics and lacquers, as well as good resistance to solvents and cleaners. The adhesive has high cohesion and can be used for labelling curved or round substrates.

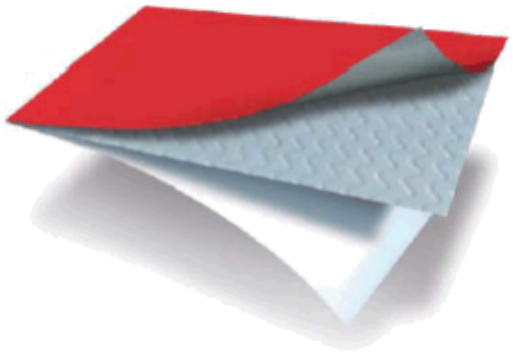
Applications and Use

Transfer rPET white TOP is designed for conversion into identification, warning and tracking labels for durable goods such as automotive parts, electronic devices and home appliances. This product is distinguished by the high chemical resistance of the thermal transfer print. For special requirements we strongly recommend application tests.

S8002 is specifically developed for labelling electronic, homeappliance and other electrical items due to its good bonding performance on a wide range of polar and apolar surfaces.

Conversion and Printing

Very good results can be achieved with thermal transfer printers equipped with conventional or near-edge print heads using resin ribbons. Transfer rPET white TOP can also be printed by all conventional roll label techniques, including flexo, UV letterpress, silkscreen, as well as UV inkjet printing.



TRANSFER RPET WHITE TOP	
S8002	
BG42WH	

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

Due to the formulation of S8002, enabling good performance on a wide range of substrates, combined with the specific coat weight, this adhesive has a certain risk of oozing. Rotary die cutting and tools optimised for this material are recommended.

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. This material complies with BS 5609:1986, Section two, Marine Immersion Test. To comply with BS 5609:1986 Section 3, the specific inks or ribbons have to be evaluated; tests can be performed upon request.

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

UL and CSA recognition

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. For specific information on approved conditions, see appendix.

Compliance with BS 5609

This material complies with BS 5609, Section two, Marine Immersion Test.

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	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
Ad Blue	Aluminium	11,5	No change	0 mm
Biodiesel	Glass	11,0	No change	0 mm
Bioethanol E85	Glass	11,5	No change	2 mm
Brake Fluid	Glass	11,0	No change	0 mm
Diesel	Glass	11,0	No change	0 mm
Engine Oil	Glass	11,5	No change	0 mm
Gasoline	Glass	8,0	No change	3 mm
Heptane	Glass	10,0	No change	3 mm
Water, distilled	Aluminium	7,5	No change	0 mm
All purpose cleaner	Glass	8,5	No change	0 mm
Bathroom cleaner	Glass	9,0	No change	0 mm
Bleach	Glass	7,5	No change	0 mm
Dishwashing detergent	Glass	9,0	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
All Purpose Cleaner: Sagrotan Sea Breeze (Reckitt Benckiser), Bathroom Cleaner: Cillit Antikalk (Reckitt Benckiser)
Bleach: Danklorix (Colgate Palmoliv) , Dishwashing detergent:: Fairy Lemon (Procter& Gamble)

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
Armor AXR7+	3	20	++	A	++	++
Armor AXR8	3	15	++	A	++	++
DNP R300	3	15	++	A	++	++
DNP R510	3	20	++	A	++	++
Iimak SP330	3	15	++	A	++	++
ITW B324	3	15	++	A	++	++
Ricoh B110CR	3	15	++	A	++	++
Zebra 4800	3	20	++	A	++	++
Zebra 5095	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
++: 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+	AXR8	R300	R510	SP330	B324	B110 CR	Z-4800	Z-5095	AXR 600	AXR 800	B120 E
Ad Blue	+	+	+	+	+	+	+	+	+	+	+	+
Anti-Freeze	+	+	+	+	+	+	+	+	+	+	+	+
Biodiesel	+	o	+	+	+	+	+	+	+	-	o	-
Bioethanol E85	-	+	+	+	+	+	+	-	+	-	o	-
Brake fluid	-	+	+	+	o	+	+	-	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

Appendix

Compliance Data

UL – Underwriters Laboratories (UL 969, Category PGJI2)

File Number: MH27538, Category PGJI2, details can be obtained on the Yellow Card.

This material is UL recognized for indoor and outdoor use where exposed to high humidity or occasional exposure to water.

Application Surface	Max Temp (°C)	Min Temp (°C)	I	O	Additional Conditions
Acrylic paint	150	-40	X	X	O, G
Acrylic powder paint	150	-40	X	X	-
Alkyd paint	150	-40	X	X	O, G
Aluminum	150	-40	X	X	O, G
Epoxy paint	150	-40	X	X	-
Epoxy powder paint	150	-40	X	X	-
Galvanized steel	150	-40	X	X	O, G
Polyester paint	150	-40	X	X	O
Polyester powder paint	150	-40	X	X	-
Polyurethane powder paint	150	-40	X	X	-
Porcelain	150	-40	X	X	-
Stainless steel	150	-40	X	X	O, G
Melamine	100	-40	X	X	O, G
Nylon - Polyamide	100	-40	X	X	O, G
Phenolic - Phenol Formaldehyde	100	-40	X	X	-
Polycarbonate	100	-40	X	X	-
Unsaturated polyester - thermoset	100	-40	X	X	-
Acrylonitrile butadiene styrene	80	-	X	-	-
Polybutylene terephthalate	80	-23	X	X	-
Polyethylene	80	-	X	-	-
Polyphenylene oxide/ether	80	-40	X	X	-
Polypropylene	80	-23	X	X	O, G
Polystyrene	80	-40	X	X	-
Polyvinyl chloride	80	-40	X	X	-
Polyvinyl fluoride	80	-	X	-	-

I: Indoor use O: outdoor use
G: Occasional exposure to gasoline (splashing) O: Occasional exposure to lubricating oils

The UL certification includes the printing with EFI Jetrion 4000 Series UV (limited to black and blue for outdoor use), and for indoor use only with Durst “Tau 330 RSC”, Xeikon “PantherCure UV” and Domino “N610i”.
In addition printing with the following thermal transfer ribbons is included:

2D Barcode Solutions	2DRR06, 2DRW06
Armor	APR6, AXR1, AXR 600, AXR 7+, AXR 8, AXR 800
Astro-Nova	R-5, RAF (Blue), RF, RY
Calor, RTT	N 501 Sw, N 508 Sw, N 544 Sw, Resist, resist+, resistNE, T 450 Sw, T 506 Sw, T 518 Sw, T 530 Sw, T 549 Sw, T 555 Sw, T 845 Sw
Coding Products	5440 (Red), 5640 (Blue), 5940
Dainippon	R300, R510, R510 (Blue, Green, Red), Signature Series (TM) Resin, TR4070, TR6070, TR6075, V300
Dasco	DR 74, DR 84
Datamax	PGR, SDR, SDR Millennium, SDR-4, SDR-5, SDR-6, SDR-7, SDR-A, SDR-D
ITW	B324, M 95, R90, R91
Iimak	Primemark, Primemark 255, SH-36, SP-330, SP-410, SP-575
Intermec Corp.	053258-2, 054048-4, TMX1500, TMX3200
Italgrafica	TF330, TF335P
Japan Pulp and Paper	Resin 1, Resin 2 (Blue, Green, Red), Sigma P
Kurz	K300, K500, K501
Mid-City Columbia Inc.	CGL 80HE, MCC-23HE
Monarch	9446

Appendix

NCR	K3, Matrix Resin, PaceSetter, Perma Max, Promark III, Ultra V
Peak	Ultra Extreme, Ultra Premium
Pelikan	T064
RSI ID Technologies	Pressiza H, Pressiza K, Pressiza R, Pressiza S, Pressiza X
Ricoh	120 EC, B110C, B110CR, B110CX, B120 EC
Sato Corp.	Premier 1
Sony Chemicals	4072, 4075, 4080, 4085, 4571, 5070, TRX-75
TTS	PDX80, SDX20, SDX40, SRX10, UEX35
Todaytec	T209, T350, TDM238, TDM242, TDM243, TDR345
Union Chemicar Am.	US300
United Barcode Ind.	HR06
Zebra Technologies	3300, 4400, 4800, 5095, 5100, 5175, 5463, 5555, Z-1400, Z-3100, Z-4100

UV inkjet with EFI Jetrion 4000

Appendix

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.
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
Electrostatic Coated Metal A	Polyester powder coat paint	+150
Electrostatic Coated Metal B	Acrylic powder coat paint	+150
Electrostatic Coated Metal C	Epoxy powder coat paint	+150
Electrostatic Coated Metal D	Polyurethane powder coat paint	+150
Plastic Group I	Phenolic, melamines, urea fomaldehyde	+100
Plastic Group II	Polyphenylene oxide, polyphenylene sulphide	+80
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
Plastic Group VIII	PET, PBT, epoxy plastic	+80
Polyvinylfluoride (PVF)		+80

The C-UL certification includes the printing with EFI Jetrion 4000 Series UV (limited to black and blue for outdoor use), and for indoor use only with Durst “Tau 330 RSC”, Xeikon “PantherCure UV” and Domino “N610i”.
In addition printing with the following thermal transfer ribbons is included:

2D Barcode Solutions	2DRR06
Armor	AXR 1, AXR 600, AXR 7+, AXR 8, AXR 800
Astro-Nova	RAF (Blue), RY
Calor, RTT	N 508 Sw, N 544 Sw, Resist, resist+, resistNE, T 506 Sw, T 518 Sw, T 530 Sw, T 549 Sw, T 555 Sw, T 845 Sw
Coding Products	5440 (Red), 5640 (Blue)
Dainippon	R300, R510, R510 (Blue, Green, Red), Signature Series (TM) Resin, TR4070, TR6070, TR6075, V300
Datamax	SDR, SDR Millennium, SDR-5, SDR-6, SDR-7, SDR-A, SDR-D
ITW	R90
Iimak	SP-575
Intermec Corp.	053258-2, 054048-4
Italgrafica	TF330, TF335P
Japan Pulp and Paper	Resin 1
Kurz	K500
Mid-City Columbia Inc.	CGL 80HE, MCC-23HE
NCR	Matrix Resin, Promark III
Peak	Ultra Extreme, Ultra Premium
RSI ID Technologies	Pressiza K, Pressiza S, Pressiza X
Ricoh	B110C, B110CR
Sato Corp.	Premier 1
Sony Chemicals	5070, TRX-75
TTS	SDX20, SDX40, SRX10, UEX35
Todaytec	T350, TDR345
Union Chemicar Am.	US300
Zebra Technologies	4400, 4800, 5100

Details on suitability of ribbons for outdoor use and additional conditions can be found in the UL Online Certification Directory (https://iq.ul.com/labels/) or via label.support@eu.averydennison.com

Avery Dennison Materials Group Europe
Willem Einthovenstraat 11
2342 BH Oegstgeest
The Netherlands
+31 (0)85 000 2000

Warranty
All Avery Dennison statements, technical information and recommendations are based on tests believed to be reliable but do not constitute a guarantee or warranty. All Avery Dennison products are sold with the understanding that purchaser has independently determined the suitability of such products for its purposes. All Avery Dennison's products are sold subject to Avery Dennison's general terms and conditions of sale, see http://terms.europe.averydennison.com