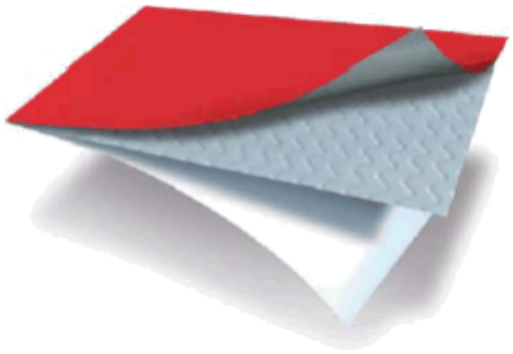
AJ059

Fasson ®

TRANSFER PET WHITE TOP S8049-BG42WH BSS FSC



TRANSFER PET WHITE TOP	
S8049	
BG42WH BSS FSC	

Facestock

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

Basis Weight	76 g/m²	ISO 536
Caliper	50 µm	ISO 534

Adhesive

S8049 is a rubber hybridised acrylic (RHA) adhesive.

Liner

BG42Wh BSS: on both sides siliconized glassine paper, woodfree, super calandered and extremely tough and tear-resistant despite its thinness.

The liner is made from FSC® certified paper (FSC Mix Credit, chain-of-custody number: CU-COC-807907, Licence Code: FSC-C004451).

Basis Weight	64 g/m²	ISO 536
Caliper	55 µm	ISO 534

Laminate

Total Caliper	150 µm±10%	ISO 534

Performance Data

Initial Tack	25 N/25mm	FTM 9 Glass
Peel Adhesion 90°	25 N/25mm	FTM 2 st.st. 24hr
Min. Application Temp.	5 °C	
Service Temperature	-40 °C to 150 °C	
Adhesive Coat Weight	45 g/m²	FTM12
Adhesive Type	rubber hybridised acrylic	

Adhesive Performance

S8049 combines extremely high peel adhesion, also on low surface energy substrates, with excellent chemical, UV and temperature resistance.

Applications and Use

Transfer PET 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.

This is a premium product for the automotive industry using Avery Dennison RHA (rubber hybridised acrylic) adhesive technology. It is designed primarily for creating labels to be applied onto low surface energy plastic automotive parts and lacquers or other rough or low surface energy surfaces. S8049 products are engineered to be resistant to - also harsh - chemicals commonly found in the automotive and electronics industry.

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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

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 PET white TOP can also be printed by all conventional roll label techniques, including flexo, UV letterpress, silkscreen. This material is qualified for UV inkjet printing by the following printer manufacturers: EFI Jetrion, Domino (n610i), Durst (TAU 330 RSC) and Xeikon (PX3000). Results of durability tests are available on request. For easy diecutting sharp corners should be avoided.

Because of the high coat weight and high tack of the adhesive, there is a risk of adhesive ooze. Special care has to be taken in the conversion process. It is recommended to contact the supplier of die cutting equipment to specify the most suitable tool. Good results have been achieved using a 60° cutting angle with laser hardening and a no-stick coating.

To maintain layflat performance, rolls must remain in their protective packaging during storage and be re-wrapped immediately after partial use to prevent humidity exposure.

Compliance and Approvals

Sustainable alternative: This material is available with 70% recycled content in the face material under a *different product code*.

This product is UL and C-UL recognized (UL 969, CSA C22.2 No. 0.15). The UL file number is MH27538.

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.

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	35,0
Aluminium	35,5
Automotive lacquered panels	35,0
Glass	37,0
HDPE	32,0
LDPE	31,0
PA6	36,0
Polycarbonate (PC)	37,0
Polyethylenetherephthalate (PET)	37,5
Polypropylene (PP)	34,0
Polystyrene (PS)	31,0
Stainless Steel	37,0

Due to the unique RHA technology we strongly recommend waiting for 24 hours after application before performing any adhesive testing.

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	Stainless Steel	28,0	No change	0 mm
Biodiesel	Stainless Steel	35,0	No change	0 mm
Bioethanol E85	Glass	29,0	No change	2 mm
Brake Fluid	Glass	35,7	No change	0 mm
Diesel	Glass	34,5	No change	0,5 mm
Engine Oil	Glass	36,5	No change	0 mm
Gasoline	Glass	22,7	No change	4,5 mm
Heptane	Glass	23,5	No change	5 mm
Water, distilled	Aluminum	29,5	No change	0 mm
Windshield washer	Stainless Steel	31,5	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

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

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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

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
Acrylic paint	150	-40	X	X
Acrylic powder paint	150	-40	X	X
Alkyd paint	150	-40	X	X
Aluminum	150	-40	X	X
Chromate treated metal	150	-40	X	X
Epoxy paint	150	-40	X	X
Epoxy powder paint	150	-40	X	X
Galvanised steel	150	-40	X	X
Polyester paint	150	-40	X	X
Polyester powder paint	150	-40	X	X
Polyurethane powder paint	150	-40	X	X
Stainless steel	150	-40	X	X
Unsaturated polyester – thermoset	150	-40	X	X
Nylon – Polyamide	100	-40	X	X
Phenolic – Phenol Formaldehyde	100	-40	X	X
ABS	80	-40	X	X
Polyphenylene oxide/ether (PPOX)	80	-40	X	-
Polypropylene	80	-40	X	X
Polystyrene (PS)	80	-40	X	X
Polycarbonate	60	-40	X	X
Polyethylene	60	-23	X	X

I: Indoor use O: outdoor use

The UL certification includes the printing with EFI Jetrion, “Jetrion 4000”, Durst “Tau 330 RSC”, Xeikon “PantherCure UV”, Domino “N610i” and the following thermal transfer ribbons:

Armor	AXR 600, AXR 7+, AXR 8
Astro-med	R-5, RAF, RF, RY
Coding Products	5440 (Red), 5640 (Blue), 5940
Dainippon	R300, R510, R510 (Blue), R510 (Green), R510 (Red, indoor use only), R550, Signature Series (TM) Resin, TR4070, TR6070, TR6075
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
Japan Pulp and Paper	Resin 1, Resin 2 (Blue), Resin 2 (Green), Resin 2 (Red, indoor use only), Sigma P
Kurz	K300, K500, K501
Mid-City Columbia Inc.	CGL 80HE, MCC-23HE
Monarch	9446
NCR	K3, Matrix Resin, PaceSetter, Perma Max, Promark III, Ultra V
Peak	Ultra Extreme, Ultra Premium
RSI ID Technologies	Pressiza H, Pressiza K, Pressiza R, Pressiza S, Pressiza X
Ricoh	120 EC, B110C, B110CR, B110CX
Sato Corp.	Premier 1
Sony Chemicals	4072, 4075, 4080, 4085, 4571, 5070, TRX-75
Union Chemicar Am.	US300
United Barcode Industries	HR06
Zebra Technologies	5095, 5100, 5175, 5463, 5555, Z-1400, Z-3100, Z-4100

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
Powder coated metal Group C	Epoxy powder coat paint	+150
Powder coated metal Group 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 VII	PVC (rigid), PVC plasticized	+80
Plastic Group VIII	Glass-filled polyester, glass-filled epoxy	+80

The C-UL certification includes the printing with EFI Jetrion, “Jetrion 4000”, Durst “Tau 330 RSC”, Xeikon “PantherCure UV”, Domino “N610i” and the following thermal transfer ribbons:

Armor	AXR 600, AXR 7+, AXR 8
Astro-med	RAF, RF, RY
Coding Products	5440 (Red), 5640 (Blue)
Dainippon	R300, R510, R510 (Blue), R510 (Green), R510 (Red, indoor use only), Signature Series (TM) Resin, TR4070, TR6070, TR6075
Datamax	SDR, SDR Millennium, SDR-5, SDR-6, SDR-7, SDR-A, SDR-D
ITW	B324, R90
Iimak	SP-575
Intermec Corp.	053258-2, 054048-4
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
Union Chemicar America	US300
Zebra Technologies	5100

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