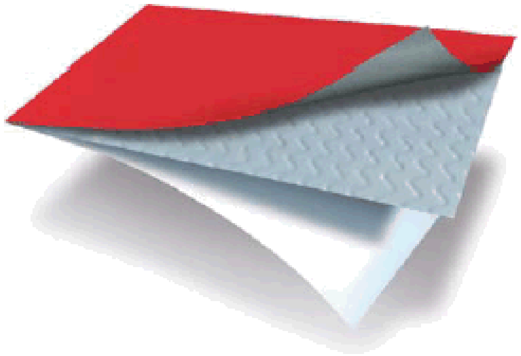
AJ059

Fasson ®

TRANSFER PET WHITE TOP - S8049-BG42WH BSS



TRANSFER PET WHITE TOP	🟥
S8049	▨
BG42WH BSS	⬜

Facestock

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

Basis Weight	76 g/m^2	ASTM D 4321
Caliper	50 µm	ASTM D 4321

Adhesive

S8049 is a rubber hybridised acrylic (RHA) adhesive

Liner

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

Basis Weight	64 g/m^2	ISO 536
Caliper	55 µm	ISO 534
Transparency	45 %	DIN 53147

Laminate

Total Caliper	152 µm±10%	ISO 534

Performance data

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

Adhesive Performance

S8049 combines extreme high final adhesion on a wide variety of surfaces including textured and low surface energy substrates with excellent chemical and temperature resistance.
The high adhesive coat weight of 45 g/m^2 makes this adhesive ideal for labelling rough plastics and other rough surfaces.

Applications and use

Transfer PET TOP white 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.

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 TOP white can also be printed by all conventional roll label techniques, including flexo, UV letterpress, silkscreen.
For easy diecutting sharp corners should be avoided.
The backside siliconisation of the liner aids the conversion of this

material as it reduces the risk of labels transferring to the backside of the label stock after diecutting.

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)

If you would like to make a suggestion or comment on this datasheet, please send an email to datasheet.mgmt@eu.averydennison.com

matt chrome TOP

S8049

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		Surface	N/25mm
ABS	35,0		PA6	36,0
Aluminum	35,5		Polycarbonate (PC)	37,0
Automotive lacquered panels	35,0		Polyester (PET)	37,5
Glass	37,0		Polypropylene (PP)	34,0
HDPE	32,0		Polystyrene (PS)	31,0
LDPE	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 (mm)
Ad Blue	Stainless Steel	28,0	No change	0
Biodiesel	Stainless Steel	35,0	No change	0
Bioethanol E85	Glass	29,0	No change	2
Brake Fluid	Glass	35,7	No change	0
Diesel	Glass	34,5	No change	0,5
Engine Oil	Glass	36,5	No change	0
Gasoline	Glass	22,7	No change	4,5
Heptane	Glass	23,5	No change	5
Water, distilled	Aluminum	29,5	No change	0
Windshield washer	Stainless Steel	31,5	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

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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	++	++
Iimak 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
++: 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	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

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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.

Substrate	Minimum Temperature (°C)	Maximum Temperature (°C)	Indoor Use	Outdoor Use
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	0	150	X	-
Polyurethane powder paint	-40	150	X	X
Stainless steel	-40	150	X	X
Unsaturated polyester - thermoset	-40	150	X	X
Nylon - polyamide	-40	100	X	X
Phenolic - Phenol Formaldehyde	-40	100	X	X
Acrylonitrile butadiene styrene (ABS)	-40	80	X	X
Polyphenylene oxide/ether (PPOX)	-40	80	X	-
Polystyrene (PS)	-40	80	X	X

The UL certification includes the printing with EFI Jetrion 4000 Series UV and 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 Red” (indoor use only), “R-510 Blue”, “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”, Iimak “SH-36”, “SP-330”, “SP-410”, "SP-575", “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 Red” (indoor use only), “Resin 2 Green”, 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 Chemicar “US-300”, United Barcode Industries “HR06”, Zebra “5095”, “5175”, “5100”, “5463”, “Z-1400”, “Z-3100”, “Z-4100” and “5555”.

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