

Product Data**FASSON Transfer PET white TOP / S8049 / BG42Wh BSS****ANS611 / AJ059**

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Facestock

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

Basis weight: 76 g/m² ISO 536
Caliper: 0,050 mm ISO 534

Adhesive

S8049 is a rubber hybridised acrylic adhesive with extremely high final adhesion on a wide variety of surfaces including textured and low surface energy substrates. Excellent chemical resistance.

Type: rubber hybridised acrylic, solvent
Coat weight: 45 g/sqm
Initial Tack: 1030 N/m FTM 9 glass
Peel Adhesion: 1060 N/m FTM 2 steel 24 hrs.
Min. Application temperature: +5 °C
Min. service temperature: -40 °C
Max. service temperature: +150 °C

Liner

BG42Wh BSS: on both sides siliconized glassine paper, wood-free, super calandered and extremely tough and tear-resistant despite its thinness. Without back imprint.

Basis weight: 64 g/m² ISO 536
Caliper: 0,055 mm ISO 534
Transparency: 45 % DIN 53147
Tensile Strength MD: ≥ 5 kN/m ISO 1924

This liner is not recommended for fanfolding.

Total construction caliper

0,150 mm

Typical Values

Typical values, not for specification use:
see Appendix 1.

Applications and use

This is a premium product for the automotive industry using patented 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 or other rough or low surface energy surfaces.

The product is briefly repositionable and then the adhesion increases to very high ultimate peel strength. S8049 products are engineered to be resistant to - also harsh - chemicals commonly found in the automotive and electronics industry.

For special requirements we strongly recommend application tests.

Printing and conversion

In addition to thermal transfer printing (see ribbon recommendation one page 3) the product can also be printed by all conventional roll label techniques, such as flexo, UV letterpress, silkscreen.

Unusually for such a high coatweight adhesive, this product can be converted normally thanks to the unique adhesive technology.

For easy diecutting sharp corners should be avoided. Specific testing is required.

UL and CSA recognition

This product meets the requirements as stated in UL 969 for indoor use. The UL file number is MH27538. For specific information on approved conditions, see appendix 2.

This product is awaiting the recognition for outdoor use according to UL969 and for indoor and outdoor use according to CAN/CSA-C22.2 NO. 0.15. We estimate the outdoor UL and cUL recognition to be received in August 2011.

RoHS / Regulation 2002/95/EU

The substances listed in article 4 lid 1 of 2002/95/EU (RoHS) are not intentionally used in this product. The concentration limits of these substances will not exceed the set maximum concentration limits as provided in the proposed amendment for 2002/95/EU.

Shelf life

Two years when stored at 22 °C and 50 %rh.

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	35,0
Aluminum	35,5
Automotive lacquered panels	35,0
Glass	37,0
HDPE	32,0
LDPE	31,0

Surface	N/25mm
PA6	36,0
Polycarbonate (PC)	37,0
Polyester (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 at 180° peel.

Chemical	Test Substrate	N/25mm	Visual appearance	Edge Penetration (mm)
Ad Blue ¹	Stainless Steel	28,0	No change	0
Biodiesel	Stainless Steel	35,0	No change	0
Bioethanol E85 ²	Glass	29,0	No change	2
Brake Fluid ³	Glass	35,7	No change	0
Diesel ⁴	Glass	34,5	No change	0,5
Engine Oil ⁵	Glass	36,5	No change	0
Gasoline ⁶	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

¹ Aral

² CropEnergies CropPower85

³ DOT 4 Synthetic (One Way)

⁴ TOTAL

⁵ TOTAL quartz 700, 10 W 40

⁶ TOTAL Euro 95

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 resis- tance
Armor AXR7+	3	20	++	A	++	++
Armor AXR8	3	15	++	A	++	++
DNP R300	3	15	++	A	++	++
DNP R510	3	20	++	A	++	++
limak 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 resis- tance
Armor AXR 600	4 "/s	+	A	++	o
Armor AXR 800	4 "/s	+	B	++	o
Ricoh B120 E	4 "/s	++	A	+	+

ANSI 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 ¹	+	+	+	+	+	+	+	+	+	+
Anti-Freeze ²	+	+	+	+	+	+	+	+	+	+
Biodiesel	+	o	+	+	+	+	+	-	o	-
Bioethanol E85 ³	-	+	+	+	+	+	+	-	o	-
Brake fluid ⁴	-	+	+	+	o	+	+	-	o	-
Cleaner solvent ⁵	+	+	+	+	+	+	+	-	-	-
Engine oil ⁶	+	+	+	+	+	+	+	+	+	o
Gasoline ⁷	-	o	-	+	-	-	-	-	-	-
Hard wax polish ⁸	+	+	+	+	+	+	+	-	-	-
Isopropanol	+	+	+	+	+	+	+	-	o	-
Spirit	-	+	+	+	+	+	+	-	o	-

+: good (no change) o: acceptable (minor change, still readable) -: poor

¹ Aral

² Speedfrost "Speedfroil" 1:1 in water

³ CropEnergies CropPower85

⁴ "ATE" SL DOT 4

⁵ "Caramba" Cold Cleaner

⁶ BP 15 W-40

⁷ Super unleaded

⁸ „Nigrin“ Hard Wax Polish

Appendix 2:
Compliance Data

UL – Underwriters Laboratories (UL969)
 File Number: MH27538

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

Substrate	Minimum Temperature (°C)	Maximum Temperature (°C)
Acrylic paint	-40	150
Acrylic powder paint	-40	150
Alkyd paint	-40	150
Aluminum	-40	150
Epoxy paint	-40	150
Epoxy powder paint	-40	150
Galvanized steel	-40	150
Polyester paint	-40	150
Polyester powder paint	0	150
Stainless steel	-40	150
Unsaturated polyester - thermoset	-40	150
Nylon - polyamide	-40	100
Phenolic - Phenol Formaldehyde	-40	100
Acrylonitrile butadiene styrene (ABS)	-40	80
Polyphenylene oxide/ether (PPOX)	-40	80
Polystyrene (PS)	-40	80

The UL certification includes the printing with one or more of 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 Millennium”, limak “SH-36”, “SP-330”, “SP-410”, “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”.

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