

**Product Data****FASSON Transfer PET Matt Silver / S8049 / BG42Wh BSS****ANS603 / AJ060**

Issue date: 01.10.2011

**Facestock**

A matt silver polyester film with backside metallization. The surface is covered with a matt topcoat designed for computer imprinting.

Basis weight: 80 g/m<sup>2</sup> ISO 536  
Caliper: 0,060 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/m<sup>2</sup> 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**

0,160 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 on 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 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 2.

**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 <sup>1</sup>	Stainless Steel	28,0	No change	0
Biodiesel	Stainless Steel	35,0	No change	0
Bioethanol E85 <sup>2</sup>	Glass	29,0	No change	2
Brake Fluid <sup>3</sup>	Glass	35,7	No change	0
Diesel <sup>4</sup>	Glass	34,5	No change	0,5
Engine Oil <sup>5</sup>	Glass	36,5	No change	0
Gasoline <sup>6</sup>	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

<sup>1</sup> Aral

<sup>2</sup> CropEnergies CropPower85

<sup>3</sup> DOT 4 Synthetic (One Way)

<sup>4</sup> TOTAL

<sup>5</sup> TOTAL quartz 700, 10 W 40

<sup>6</sup> 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+	4	15	+	D <sup>1</sup>	++	++
DNP R300	3	15	++	D <sup>1</sup>	++	+
limak SP330	3	15	++	D <sup>1</sup>	++	o
ITW B324	3	15	+	D <sup>1</sup>	++	o
Ricoh B110A	5	15	++	D <sup>1</sup>	++	++
Ricoh B110CX	3	15	+	D <sup>1</sup>	++	++

Near Near edge printers (tests were performed with the printer Avery TTX 450 – Near Edge):

Ribbon	Settings	Print Quality	ANSI Grade	Scratch resistance	Tape resistance
DNP TR4500	6 "/s	++	D <sup>1</sup>	++	o
Ricoh B120 Ex2	6 "/s	++	D <sup>1</sup>	++	++

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  
<sup>1</sup> The print quality is good, but due to the reflection of metallised films the contrast is low

**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+	R300	SP330	B324	B110A	B110 CX	APR 600	TR 4500	B120 E
Ad Blue <sup>1</sup>	+	+	+	+	+	+	+	+	+
Anti-Freeze <sup>2</sup>	+	+	+	+	+	+	o	o	o
Biodiesel	+	+	+	+	o	+	-	-	-
Bioethanol E85 <sup>3</sup>	+	+	+	+	o	+	-	-	-
Brake fluid <sup>4</sup>	o	o	+	+	o	o	o	o	o
Cleaner solvent <sup>5</sup>	+	+	+	+	+	+	-	-	-
Engine oil <sup>6</sup>	+	+	+	+	+	+	+	+	+
Gasoline <sup>7</sup>	o	o	o	o	o	o	-	-	-
Hard wax polish <sup>8</sup>	+	+	+	+	+	o	-	-	-
Isopropanol	+	+	+	+	+	+	o	o	o
Spirit	+	+	+	+	+	o	o	o	o

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

<sup>1</sup> Aral

<sup>2</sup> Speedfrost "Speedfroil" 1:1 in water

<sup>3</sup> CropEnergies CropPower85

<sup>4</sup> "ATE" SL DOT 4

<sup>5</sup> "Caramba" Cold Cleaner

<sup>6</sup> BP 15 W-40

<sup>7</sup> Super unleaded

<sup>8</sup> „Nigrin“ Hard Wax Polish

**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.

<b>Substrate</b>	<b>Minimum Temperature (°C)</b>	<b>Maximum Temperature (°C)</b>	<b>Indoor Use</b>	<b>Outdoor Use</b>
Acrylic powder paint	-40	150	X	X
Aluminum	-40	150	X	X
Epoxy powder paint	-40	150	X	X
Galvanized steel	-40	150	X	X
Polyester powder paint	-40	150	X	X
Polyurethane powder paint	-40	150	X	X
Stainless steel	-40	150	X	X
Acrylonitrile butadiene styrene (ABS)	-40	80	X	X
Phenolic - Phenol Formaldehyde	-40	80	X	X
Polyphenylene oxide/ether (PPOX)	-40	80	X	X
Polystyrene (PS)	-40	80	X	X

The UL certification includes the printing with one or more of the following thermal transfer ribbons:

Armor "APR5", "APR600", "AXR7+", "AXR8", Astro-Med "RV2", "R5", DNP "TR4500", "TR6075", Graficor "GC14", "GC12", Imak "SP330", ITW "B324", Kurz "K501", Ricoh "B-110A", "B-110CX", "B120 Ex2", Pelikan "T016", "T001" and Sony "TR4500".

**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, wet locations (Type A). The details are listed in the UL file number MH27538.

<b>Group</b>	<b>Application Surface</b>	<b>Max. Temperature (°C)</b>
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
Metals	Bare, plated or enamelled steel; bare, anodized or enamelled aluminium	150
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	Glass-filled polyester, glass-filled epoxy	80

The C-UL certification includes the printing with one or more of the following thermal transfer ribbons:

Armor "APR 600", "AXR7+", "AXR8", DNP "TR6075", limak "SP330", ITW "B324", Ricoh "B110A", "B110CX" and "B120 Ex2".

**Warranty**

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