

### Facestock

A white polyester film; the surface is covered with an absorbing, matt topcoat for very good ink anchorage.

Basis Weight	74 g/m <sup>2</sup>	ISO 536
Caliper	55 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/m <sup>2</sup>	ISO 536
Caliper	55 µm	ISO 534

### Laminate

Total Caliper	150 µm±10%	ISO 534
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### 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/m <sup>2</sup>	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 matt white was specially developed for labels on Durables Goods, especially in the automotive industry, but also in other segments. Identification labels and logistical labels are the main applications. When printed with high quality thermal transfer ribbons, very high chemical resistance of the print can be achieved.

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.

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.

## AL854

## Fasson®

### TRANSFER PET MATT WHITE S8049-BG42WH BSS FSC



TRANSFER PET MATT  
WHITE

S8049

BG42WH BSS FSC



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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](mailto:datasheet.mgmt@eu.averydennison.com)*

### Conversion and Printing

Thanks to the special surface coating, excellent results can be achieved with thermal transfer printers equipped with conventional or near-edge print heads and using either wax/resin or pure resin ribbons. In addition the product can also be printed by all conventional roll label techniques, such as flexo, UV letterpress, silkscreen. Specific testing is required. For easy diecutting sharp corners should be avoided.

### 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
inkanto AXR7+	4	15	+	A	++	++
DNP R300	3	15	++	A	++	+
limak SP330	3	15	++	A	++	o
ITW B324	3	15	+	A	++	o
Ricoh B110A	5	15	++	A	++	++
Ricoh B110CX	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
inkanto APR 600	4 "/s	o	C	++	-
DNP TR4500	4 "/s	++	B	++	-
Ricoh B120 Ex2	4 "/s	+	B	++	-

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+	R300	SP330	B324	B110A	B110 CX	APR 600	TR 4500	B120E
Ad Blue	+	+	+	+	+	+	+	+	+
Anti-Freeze	+	+	+	+	+	+	o	o	o
Biodiesel	+	+	+	+	o	+	-	-	-
Bioethanol E85	+	+	+	+	o	+	-	-	-
Brake fluid	o	o	+	+	o	o	o	o	o
Cleaner solvent	+	+	+	+	+	+	-	-	-
Engine oil	+	+	+	+	+	+	+	+	+
Gasoline	o	o	o	o	o	o	-	-	-
Hard wax polish	+	+	+	+	+	o	-	-	-
Isopropanol	+	+	+	+	+	+	o	o	o
Spirit	+	+	+	+	+	o	o	o	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 PGJ12)

File Number: MH27538, Category PGJ12

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
Epoxy paint	150	-40	X	X
Epoxy powder paint	150	-40	X	X
Galvanized steel	150	-40	X	X
Polyester paint	150	-40	X	X
Polyester powder paint	150	-	X	-
Polyurethane powder paint	150	-40	X	X
Stainless steel	150	-40	X	X
Unsaturated polyester - thermoset	150	-40	X	X
Acrylonitrile butadiene styrene	80	-40	X	X
Nylon - Polyamide	80	-40	X	X
Phenolic - Phenol Formaldehyde	80	-40	X	X
Polyethylene	80	-40	X	X
Polyphenylene oxide/ether	80	-40	X	-
Polystyrene	80	-40	X	X

I: Indoor use      O: outdoor use

The UL certification includes the printing with the following thermal transfer ribbons:

Armor	APR5, APR600, AXR 7+, AXR 8
Astro-Nova	R-5
Dainippon	R300, TR4500, TR6075
Graficor	GC12, GC14
ITW	B324
limak	SP-330
Italgrafica	TF330
Kurz	K501
Pelikan	T001, T016
Ricoh	B110A, B110CX, B120EX2
Sony Chemicals	TR4500

## Appendix

### 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.

The details are listed in the UL file number MH27538, Category PGJ18.

Group	Application Surface	Max. Temperature (°C)
Metals	Bare, plated or enamelled steel; bare, anodized or enamelled aluminium	+150
Powder coated metal Group A	Polyester powder coat paint	+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 formaldehyde	+100
Plastic Group II	Polyphenylene oxide, polyphenylene sulphide	+80
Plastic Group III	Polycarbonate, acetates, acrylics	+80
Plastic Group IV	Polyethylene, polypropylene, polybutylene	+150
Plastic Group V	Polyamide, polyimide	+80
Plastic Group VI	Polystyrene, styrene acrylonitrile, acrylonitrile-butadiene-styrene	+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 the following thermal transfer ribbons:

Armor	AXR 600, AXR 7+, AXR 8
Dainippon	R300, TR6075
ITW	B324
limak	SP-330
Italgrafica	TF330
Ricoh	B110A, B110CX, B120EX2

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### Warranty

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