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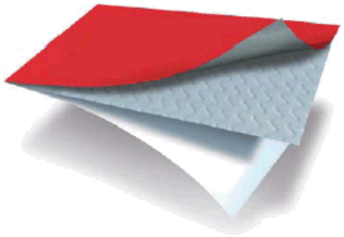
AJ060

Fasson ®

TRANSFER PET MATT SILVER - S8049-BG42WH BSS



TRANSFER PET MATT SILVER	🟥
S8049	▨
BG42WH BSS	⬜

Facestock

A silver polyester film with backside metallisation. The surface is covered with an absorbing, matt topcoat for very good ink anchorage.

Basis Weight	80 g/m²	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, wood-free, super calandered and extremely tough and tear-restistent despite its thinness.

Basis Weight	64 g/m²	ISO 536
Caliper	55 µm	ISO 534
Transparency	45 %	DIN 53147

Laminate

Total Caliper	152 µm±10%	ISO 534

Performance data

Initial Tack	27 N/25mm	FTM 9 glass
Min. Application Temp.	5 °C	
Service temperature	-40°C to 150°C	
Adhesive Type	rubber hybridised acrylic, solvent	
Adhesive weight	45 g/m²	FTM12
Peel Adhesion 90°	27 N/25mm	FTM 2 st.st. 24hr

Adhesive Performance

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

Applications and use

Transfer PET matt silver 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.

Conversion & printing

Thanks to the special surface coating, very good 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.
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.

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)

All data to be considered as typical values and subject to change without prior notice. The actual front and liner used might influence adhesive values. 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

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

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[1]	++	++
DNP R300	3	15	++	D[1]	++	+
Iimak SP330	3	15	++	D[1]	++	o
ITW B324	3	15	+	D[1]	++	o
Ricoh B110A	5	15	++	D[1]	++	++
Ricoh B110CX	3	15	+	D[1]	++	++

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 APR 600	6 ”/s	++	D[1]	++	o
DNP TR4500	6 ”/s	++	D[1]	++	o
Ricoh B120 Ex2	6 ”/s	++	D[1]	++	++

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

[1] 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	B110CX	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 2:
Compliance Data

UL – Underwriters Laboratories (UL969)
This material is UL recognized for exposure indoors and outdoors to high humidity or occasional exposure to water. Details are listed in the UL file MH27538.

Application Surface	Minimum Temperature (°C)	Maximum Temperature (°C)
Acrylic powder paint	-40	+150
Aluminum	-40	+150
Epoxy powder paint	-40	+150
Galvanised steel	-40	+150
Polyester powder paint	-40	+150
Polyurethane powder paint	-40	+150
Stainless steel	-40	+150
ABS	-40	+80
Phenolic – Phenol Formaldehyde	-40	+80
Polyphenylene oxide/ether (PPOX)	-40	+80
Polystyrene (PS)	-40	+80

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

Armor	APR5, APR600, AXR 7+
Astro-med	R-5, RV2
Dainippon	TR4500, TR6075
Graficor	GC12, GC14
ITW	B324
Iimak	SP-330
Kurz	K501
Pelikan	T016
Ricoh	B110A, B110CX, B120EX2
Sony Chemicals	TR4500

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, where exposed to wet locations.
The details are listed in the UL file number MH27538.

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 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	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	APR600, AXR 7+, AXR 8
Dainippon	TR6075
ITW	B324
Iimak	SP-330
Ricoh	B110A, B110CX, B120EX2

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