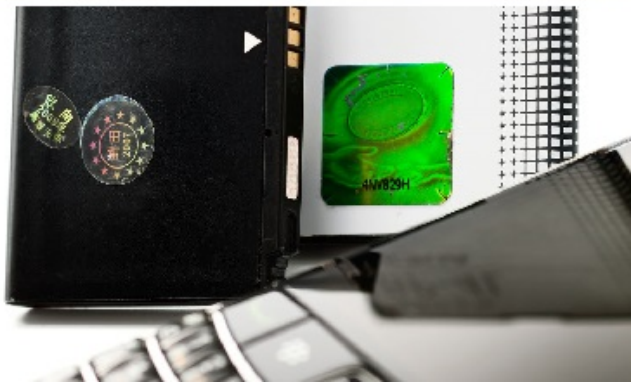


AA646

Fasson ®
TRANSFER PET MATT SILVER - S8020-BG42WH

A matt silver PET film featuring excellent chemical resistance of thermal transfer printing, combined with a general purpose acrylic adhesive.

Key features

> Very high resistance of TT print against harsh chemicals as used in the automotive industry.

A general purpose emulsion acrylic adhesive.

> UL recognised label material.

AVERY DENNISON | Inspired Brands. Intelligent World.™

AA646

Fasson ®
TRANSFER PET MATT SILVER - S8020-BG42WH

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
S8020 is a clear permanent acrylic adhesive.

Liner
BG42 white, a supercalendered glassine paper.

Basis Weight	64 g/m²	ISO 536
Caliper	57 µm	ISO 534
Transparency	50 %	DIN 53147

Laminate

Total Caliper	128 µm±10%	ISO 534

Performance data

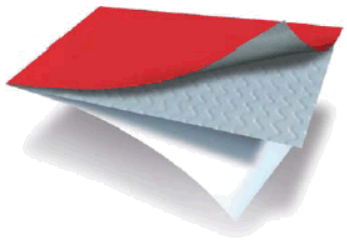
Initial Tack	14 N/25mm	FTM 9 Glass
Min. Application Temp.	5 °C	
Service temperature	-40°C to 150°C	
Peel Adhesion 90°	7.5 N/25mm	FTM 2 st.st. 24hr
Adhesive Type	Emulsion Acrylic	

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 material can be used to label Durable Goods with a high and medium surface energy, for example metals and plastics like ABS and Polycarbonate. Labelling of rough substrates is not recommended.

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.

This product is UL recognized for indoor and outdoor use, the file number is MH27538.

Shelf life
Two years under storage conditions as defined by FINAT (20-25°C; 40-50%RH)



TRANSFER PET MATT SILVER	
S8020	
BG42WH	

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

anchorage.

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Two years under storage conditions as defined by FINAT (20-25°C; 40-50%RH)

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
ABS	9,5
Aluminium	9,5
Automotive lacquered panels	8,0
Glass	10,5
HDPE	4,5
LDPE	4,5
PA6	9,0
Stainless Steel	18,0

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	Aluminium	8,9	No change	1
Biodiesel	Glass	10,1	No change	0
Bioethanol E85	Glass	8,4	No change	2
Brake Fluid	Glass	9,8	No change	0
Diesel	Glass	8,6	No change	0
Engine Oil	Glass	9,5	No change	0
Gasoline	Glass	6,8	No change	3
Heptane	Glass	7,2	No change	3
Water, distilled	Aluminium	8,1	No change	3

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 speed	Settings energy	Print Quality	ANSI Grade	Scratch resistance	Tape resistance
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.

	AXR 7+	R300	SP33 0	B324	B110 A	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 2:
Compliance Data

UL – Underwriters Laboratories

File Number: MH27538
Category: PGJI2

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)
Stainless steel	-40	+150
Aluminum	-40	+150
Galvanized steel	-40	+150
Alkyd paint	-40	+150

Nylon	-40	+100
Polycarbonate	-40	+100
ABS	-40	+80

The UL certification includes the printing with one or more of the following thermal transfer ribbons:
Armor "APR5", "AXR7+", Astro-Med "RV2", "R5", Graficor "GC14", "GC12", Kurz "K501", Ricoh "B-110A", "B-110CX", Pelikan "T016" and "T001".

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