

Facestock

A matt finished polyester film with backside metallisation. The smooth surface is covered with a topcoat for very good ink anchorage.

Basis Weight	72 g/m ²	ISO 536
Caliper	50 µm	ISO 534

Adhesive

S8020 is a clear permanent adhesive featuring excellent UV resistance and weatherability together with good overall adhesion performance.

Liner

BG42 white, a supercalendered glassine paper.

The liner is made from FSC® certified paper (FSC Mix Credit, chain-of-custody number: CU-COC-807907, Licence Code: FSC-C004451).

Basis Weight	62 g/m ²	ISO 536
Caliper	55 µm	ISO 534
Transparency	50 %	DIN 53147

Laminate

Total Caliper	125 µm±10%	ISO 534
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Performance Data

Initial Tack	7.5 N/25mm	FTM 9 glass
Peel Adhesion 90°	9.5 N/25mm	FTM2 st.st. 24 hrs.
Min. Application Temp.	5 °C	
Service Temperature	-40 °C to 150 °C	
Adhesive Coat Weight	20 g/m ²	FTM12
Adhesive Type	Emulsion Acrylic	

Adhesive Performance

The adhesive S8020 features excellent temperature and UV resistance as well as weatherability. This general purpose adhesive offers good peel adhesion values on high and medium surface energy substrates.

Applications and Use

Transfer PET matt chrome TOP was specially developed for labels on Durable Goods, including automotive parts, electronic equipment and home appliances.

The main area of application for this product is the labelling of industrial products, for example in the electronics and appliance market. Nameplates and logistics labels are typical examples.

Conversion and Printing

Very good results can be achieved with thermal transfer printers equipped with conventional or near-edge print heads using resin ribbons. This product is qualified by EFI Jettron and Durst for UV inkjet printing. Transfer PET matt chrome TOP can also be printed by all conventional roll label techniques, including flexo, UV letterpress, silkscreen. For easy diecutting sharp corners should be avoided.

Compliance and Approvals

This product is UL and C-UL recognized (UL 969, CSA C22.2 No. 0.15). The UL file number is MH27538.

AA644

Fasson®

TRANSF PET MATT CHR TOP S8020-BG42WH FSC



TRANSF PET MT CHR TOP

S8020

BG42WH 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

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 for indoor and outdoor use and CSA C22.2 No. 0.15 for indoor 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	9,5
Aluminium	9,5
Automotive lacquered panels	8,0
Glass	10,5
HDPE	4,5
LDPE	4,5
PA6	9,0
Stainless Steel	11,0

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
Ad Blue	Aluminium	8,9	No change	1 mm
Biodiesel	Glass	10,1	No change	0 mm
Bioethanol E85	Glass	8,4	No change	2 mm
Brake Fluid	Glass	9,8	No change	0 mm
Diesel	Glass	8,6	No change	0 mm
Engine Oil	Glass	9,5	No change	0 mm
Gasoline	Glass	6,8	No change	3 mm
Heptane	Glass	7,2	No change	3 mm
Water, distilled	Aluminium	8,1	No change	3 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
Armor AXR7+	3	20	++	D ¹	++	++
Armor AXR8	3	15	++	D ¹	++	++
DNP R300	3	15	++	D ¹	++	++
DNP R510	3	20	++	D ¹	++	++
limak SP330	3	15	++	D ¹	++	++
ITW B324	3	15	++	D ¹	++	++
Ricoh B110CR	3	15	++	D ¹	++	++
Zebra 4800	3	20	++	D ¹	++	++
Zebra 5095	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 AXR 600	4 "/s	++	D ¹	++	++
Armor AXR 800	4 "/s	+	D ¹	++	o
Ricoh B120 E	4 "/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+	AXR8	R300	R510	SP330	B324	B110CR	Z-4800	Z-5095	AXR 600	AXR 800	B120 E
Ad Blue	+	+	+	+	+	+	+	+	+	+	+	+
Anti-Freeze	+	+	+	+	+	+	+	+	+	+	+	+
Biodiesel	+	o	+	+	+	+	+	+	+	-	o	-
Bioethanol E85	-	+	+	+	+	+	+	-	+	-	o	-
Brake fluid	-	+	+	+	o	+	+	-	o	-	o	-
Cleaner solvent	+	+	+	+	+	+	+	+	+	-	-	-
Engine oil	+	+	+	+	+	+	+	+	+	+	+	o
Gasoline	-	o	-	+	-	-	-	-	-	-	-	-
Hard wax polish	+	+	+	+	+	+	+	+	+	-	-	-
Isopropanol	+	+	+	+	+	+	+	+	+	-	o	-
Spirit	-	+	+	+	+	+	+	-	+	-	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)
Alkyd paint	150	-40
Aluminum	150	-40
Galvanized steel	150	-40
Stainless steel	150	-40
Nylon - Polyamide	100	-40
Polycarbonate	100	-40
Acrylonitrile butadiene styrene (ABS)	100	-40

The UL certification includes the printing with EFI Jetrion 4000 Series UV, and for indoor use only with Durst “Tau 330 RSC”, Xeikon “PantherCure UV” and Domino “N610i”.

In addition printing with the following thermal transfer ribbons is included:

Armor	AXR 600, AXR 7+, AXR 8
Astro-Nova	R-5, RAF (Blue), RF, RY
Coding Products	5440 (Red), 5640 (Blue), 5940
Dainippon	R300, R510, R510 (Blue), R510 (Green), R510 (Red), Signature Series™ Resin, TR4070, TR6070, TR6075
Dasco	DR 74, DR 84
Datamax	PGR, SDR, SDR Millennium, SDR-4, SDR-5, SDR-6, SDR-7, SDR-A, SDR-D
ITW	B324, M 95, R90, R91
limak	Primemark, Primemark 255, SH-36, SP-330, SP-410
Intermec Corp.	053258-2, 054048-4, TMX1500, TMX3200
Italgrafica	TF330, TF335P
Japan Pulp and Paper	Resin 1, Resin 2 (Blue), Resin 2 (Green), Resin 2 (Red)
Japan Pulp and Paper GmbH	Sigma P
Kurz	K300, K500, K501
Mid-City Columbia Inc.	CGL 80HE, MCC-23HE
Monarch	9446
NCR	K3, Matrix Resin, PaceSetter, Perma Max, Promark III, Ultra V
Peak	Ultra Extreme, Ultra Premium
RSI ID Technologies	Pressiza H, Pressiza K, Pressiza R, Pressiza S, Pressiza X
Ricoh	120 EC, B110C, B110CR, B110CX
Sato Corp.	Premier 1
Sony Chemicals	4070, 4075, 4080, 4085, 4571, 5070, TRX-75
Union Chemicar America	US300
United Barcode Ind.	HR06
Zebra Technologies	4800, 5095, 5100, 5175, 5463, 5555, Z-1400, Z-3100, Z-4100

Appendix

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 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
Plastic Group III	Polycarbonate, acetates, acrylics	+100
Plastic Group V	Polyamide, polyimide	+100
Plastic Group VI	Polystyrene, styrene acrylonitrile, acrylonitrile butadiene styrene (ABS)	+100

The C-UL certification includes the printing with EFI Jetrion 4000 Series UV, and for indoor use only with Durst “Tau 330 RSC”, Xeikon “PantherCure UV” and Domino “N610i”.

In addition printing with the following thermal transfer ribbons is included:

Armor	AXR 600, AXR 7+, AXR 8
Dainippon	R300, R510, TR6075
ITW	B324
Italgrafica	TF330, TF335P
Ricoh	B110CR
Zebra Technologies	4800

Details on suitability of ribbons for outdoor use and additional conditions can be found in the UL Online Certification Directory (<https://iq.ul.com/labels/>) or via label.support@eu.averydennison.com

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Warranty

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