

Facestock

A polyester based film with a satin-matt topcoating for very good ink anchorage.

Basis Weight	55 g/m ²	ISO 536
Caliper	50 µm	ISO 534

Adhesive

S8002 is a permanent acrylic adhesive with good initial tack and high ultimate adhesion onto a variety of substrates including apolar plastics and lacquers.

Liner

BG42 white, a supercalendered glassine paper.

Basis Weight	64 g/m ²	ISO 536
Caliper	57 µm	ISO 534
Transparency	50 %	DIN 53147

Laminate

Total Caliper	134 µm±10%	ISO 534
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Performance Data

Initial Tack	12 N/25mm	FTM 9 Glass
Peel Adhesion 90°	10.5 N/25mm	FTM2 st.st.
Min. Application Temp.	5 °C	
Service Temperature	-40 °C to 150 °C	
Adhesive Coat Weight	27 g/m ²	FTM12
Adhesive Type	Emulsion Acrylic	

Adhesive Performance

S8002 offers good initial tack and high ultimate adhesion onto a variety of substrates including apolar plastics and lacquers, as well as good resistance to solvents and cleaners. The adhesive has high cohesion and can be used for labelling curved or round substrates.

Applications and Use

This face-stock was specifically developed for labelling electronic, home appliance and other electrical items. The surface is designed for thermal transfer and conventional print and features good chemical resistance.

S8002 is specifically developed for labelling electronic, home appliance and other electrical items due to its good bonding performance on a wide range of polar and apolar surfaces including metals, polycarbonate, ABS and polypropylene.

Conversion and Printing

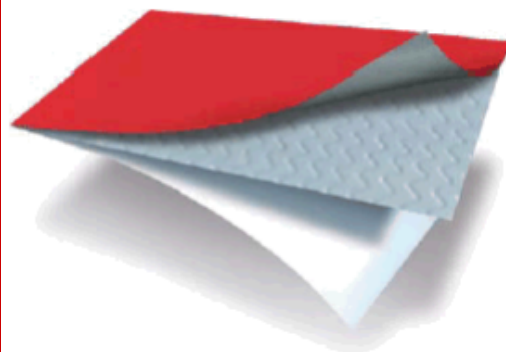
This film was developed for producing industrial labels carrying thermal transfer print. Best results can be achieved using resin or wax/resin ribbons.

Additionally it can also be printed by all conventional roll label techniques, such as flexo, UV letterpress, silkscreen. Printing tests are recommended, especially with low-migration inks. Using UV inkjet technology is possible, but due to the characteristics of the matt topcoat the image sharpness might not be satisfactory.

BU455

Fasson ®

TRANSFER PET MT WH TC20 S8002-BG42WH



TRANSFER PET MT WH TC20	
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S8002	
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BG42WH	
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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 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	13,0
Aluminium	11,5
Automotive lacquered panels	10,5
Glass	12,0
HDPE	7,5
LDPE	8,0
PA6	10,5
Stainless Steel	15,0

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	11,5	No change	0 mm
Biodiesel	Glass	11,0	No change	0 mm
Bioethanol E85	Glass	11,5	No change	2 mm
Brake Fluid	Glass	11,0	No change	0 mm
Diesel	Glass	11,0	No change	0 mm
Engine Oil	Glass	11,5	No change	0 mm
Gasoline	Glass	8,0	No change	3 mm
Heptane	Glass	10,0	No change	3 mm
Water, distilled	Aluminium	7,5	No change	0 mm
All purpose cleaner	Glass	8,5	No change	0 mm
Bathroom cleaner	Glass	9,0	No change	0 mm
Bleach	Glass	7,5	No change	0 mm
Dishwashing detergent	Glass	9,0	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
All Purpose Cleaner: Sagrotan Sea Breeze (Reckitt Benckiser), Bathroom Cleaner: Cillit Antikalk (Reckitt Benckiser)
Bleach: Danklorix (Colgate Palmoliv) , Dishwashing detergent: Fairy Lemon (Procter & Gamble)

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 APR6	4	10	++	A	-	-
Armor AXR7+	4	25	++	A	o	+
DNP R300	4	25	+	A	o	++
limak SP330	4	25	++	A	o	++
ITW B324	4	25	+	A	o	++
Ricoh B110A	4	10	++	A	-	-
Ricoh B110CR	4	25	++	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
Armor APR 600	6 "/s	+	B	-	+
DNP TR4500	7 "/s	++	A	-	+
Ricoh B120E	6 "/s	++	A	-	+

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.

	APR6	AXR7+	R300	SP330	B324	B110A	B110 CR	APR 600	TR450 0	B120E
Ad Blue	+	+	+	+	+	+	+	+	+	+
Anti-Freeze	+	+	+	+	+	+	+	+	+	+
Biodiesel	-	+	+	+	+	+	+	-	-	-
Brake fluid	-	o	o	-	o	+	+	o	+	+
Cleaner solvent	-	+	+	+	+	o	+	-	-	-
Engine oil	+	+	+	+	+	+	+	+	+	+
Gasoline	-	-	-	o	+	-	-	-	-	-
Isopropanol	-	+	+	+	+	+	+	-	+	+
Spirit	-	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, Brake Fluid: DOT 4 Synthetic (One Way),
Cleaner Solvent: "Caramba" Cold Cleaner, Engine Oil: TOTAL quartz 700, 10 W 40, Gasoline: TOTAL Euro 95

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	Additional Conditions
Acrylic paint	150	-40	X	X	O
Acrylic powder paint	150	-40	X	X	-
Alkyd paint	150	-40	X	X	O
Aluminum	150	-40	X	X	O
Epoxy paint	150	-40	X	X	O
Epoxy powder paint	150	-40	X	X	-
Galvanized steel	150	-40	X	X	O
Polyester paint	150	-40	X	X	O
Polyester powder paint	150	-40	X	X	-
Polyurethane powder paint	150	-40	X	X	-
Porcelain	150	-40	X	X	O
Stainless steel	150	-40	X	X	O
Chromate treated metal (smooth)	100	-40	X	X	-
Melamine	100	-40	X	X	O
Nylon – Polyamide	100	-40	X	X	O
Phenolic - Phenol Formaldehyde	100	-40	X	X	-
Polycarbonate	100	-40	X	X	-
Unsaturated polyester – thermoset	100	-40	X	X	-
ABS	80	-	X	-	-
Polybutylene terephthalate (PBT)	80	-23	X	X	-
Polyethylene (PE)	80	-	X	-	-
Polyphenylene oxide/ether (PPOX)	80	-40	X	X	-
Polypropylene	80	-23	X	X	O
Polystyrene (PS)	80	-40	X	X	-
Polyvinyl chloride (PVC)	80	-40	X	X	-
Polyvinylfluoride (PVF)	80	-	X	-	-

I: Indoor use O: outdoor use
 O: Occasional exposure to lubricating oils

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

Armor	AXR1, AXR7+, APR6, APR600
Dainippon	R300, R550, R510, V300
limak	SP-330
Italgrafica	TF330, TF335P
ITW	B324
Ricoh	B110A, B110CR, B110Ti, B120E
Zebra Technologies	5095

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	+125
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	+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	PET, PBT, epoxy plastic	+80
Polyvinylfluoride (PVF)		+80

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

Armor	AXR1, AXR 7+
Dainippon	R300, R510, V300
ITW	B324
limak	SP-330
Italgrafica	TF330, TF335P
Ricoh	B110CR

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Warranty

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