



AD221

Fasson ® TRANSF PET MATT CHR TOP - S8030-BG42WH

Key features

- > Excellent TT printability.
- > High chemical resistance of TT print against harsh chemicals.
- > Suitable for UV inkjet printing, qualified by EFI Jetrion and Durst.

- > Solvent acrylic adhesive featuring high tack and peel adhesion on a wide variety of substrates, including low surface energy plastics.
- > UL and CSA recognised label material.

Facestock

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

Basis Weight	65 g/m ²	ISO 536
Caliper	50 µm	ISO 534

Adhesive

S8030 is a high strength permanent solvent based acrylic adhesive.

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	132 µm±10%	ISO 534
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Performance data

Initial Tack	22.5 N/25mm	FTM 9 Glass
Min. Application Temp.	7 °C	
Service temperature	-40°C to 150°C	
Peel Adhesion 90°	12 N/25mm	FTM 2 st.st. 24hr

Adhesive Type	Solvent Acrylic	
Adhesive weight	24 g/m ²	FTM12

Adhesive Performance

S8030 features a balanced adhesive performance on a wide variety of substrates including low energy plastics combined with good chemical resistance.

Applications and use

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

This all-round performing product provides good adhesion onto low surface energy plastics combined with the long term durability expected from a solvent acrylic adhesive.

Conversion & 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 Jetrion and Durst for UV inkjet printing. Transfer PET trans TOP can also be printed by all conventional roll label techniques, including flexo, UV letterpress, silkscreen.

For easy diecutting sharp corners should be avoided.

UL and CSA Recognitions

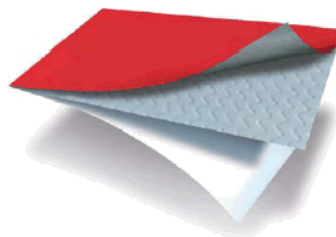
This product meets the requirements as stated in UL 969 and CSA C22.2 No. 0.15 for indoor use. The UL file number is MH27538.

Shelf life

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

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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

Appendix 1

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	13,0
Aluminium	13,0
Automotive lacquered panels	14,0
Glass	14,5
HDPE	10,0
LDPE	8,0
PA6	13,0
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 (mm)
Ad Blue	Aluminium	14,0	No change	0
Biodiesel	Glass	13,9	No change	0
Bioethanol E85	Glass	13,1	No change	2
Brake Fluid	Glass	12,0	No change	0
Diesel	Glass	13,0	No change	0
Engine Oil	Glass	12,5	No change	0
Gasoline	Glass	9,0	No change	4
Heptane	Glass	8,0	No change	4
Water, distilled	Aluminium	10,0	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 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	++	++

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	++	o
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

¹The 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+	AXR 8	R300	R51 0	SP3 30	B324	B110 CR	AXR 600	AXR 800	B120 E
Ad Blue	+	+	+	+	+	+	+	+	+	+
Anti-Freeze	+	+	+	+	+	+	+	+	+	+
Biodiesel	+	o	+	+	+	+	+	-	o	-
Bioethanol E85	-	+	+	+	+	+	+	-	o	-
Brake fluid	-	+	+	+	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 2: Compliance Data

UL – Underwriters Laboratories

File Number: MH27538

This material is UL recognized according to UL969 for exposure indoors to high humidity or occasional exposure to water.

Application Surface	Minimum Temperature (°C)	Maximum Temperature (°C)
Alkyd paint	-	+150
Aluminum	-40	+150
Galvanized steel	-40	+150
Glass	-40	+150
Stainless steel	-40	+150
Polycarbonate	-40	+100
Nylon	-	+100
Polyethyleneterephthalate (PET)	-40	+100
ABS	-40	+80
Polyvinylfluoride (PVF)	-23	+80

The UL certification includes the printing with EFI Jetrion 4000 Series UV and the following thermal transfer ribbons:

Astro-Med "RF", "RY", "RAF Blue", "R-5", Armor "AXR8", "AXR600", "AXR-7+", Coding Products "5940", "5640 Blue", "5440 Red", DNP "R-300", "R-510", "R-510 Green", "R-510 Blue", "TR4070", "TR6070", "TR6075", "Signature Series Resin", Dasco "DR-74", "DR-84", Datamax "SDR-A", "SDR-D", "SDR-5", "SDR-6", "SDR", "PGR", "SDR-7", "SDR-4", "SDR Millenium", limak "SH-36", "SP-330", "SP-410", "Primemark", "Primemark 255", Intermec "053258-2", "054048-4", "TMX 3200", "TMX 1500", "Italgrafica F330", "Italgrafica TF335P", ITW "B324", "R-90", "R-91", "M-95", Japan Pulp and Paper "Resin 1", "Resin 2 Blue", "Resin 2 Green", Japan Pulp and Paper GmbH "Sigma P", Kurz "K-300", "K-500", "K-501", Mid-City Columbia "CGL-80HE", "MCC-23HE", Monarch "9446", NCR "Promark 3", "Pacesetter", "Ultra V", "Matrix Resin", "Perma Max", "K3", Peak "Ultra Premium", "Ultra Extreme", Ricoh "B110C", "B110CR", "120EC", "B110CX", RSI ID Technologies "Pressiza H", "Pressiza R", "Pressiza S", "Pressiza K", "Pressiza X", Sato "Premier 1", Sony "4072", "4080", "4075", "4085", "5070", "4571", "TRX-75", Union Chemcar "US-300", United Barcode Industries "HR06", Zebra "5095", "5175", "5100", "5463", "Z-1400", "Z-3100", "Z-4100" and "5555".

Appendix 2: 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 use. 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
Plastic Group III	Polycarbonate, acetates, acrylics	80
Plastic Group IV	Polyethylene, polypropylene, polybutylene	60
Plastic Group V	Polyamide, polyimide	80
Plastic Group VI	ABS, styrene, styrene acrylonitrile	80

The C-UL certification includes the printing with EFI Jetrion 4000 Series UV and the following thermal transfer ribbons:

Armor “AXR600”, “AXR7+”, “AXR8”, DNP “R300”, “R510”, “TR6075”, ITW “B324”, Ricoh “B110CR”.

Avery Dennison Materials Group Europe

Willem Einthovenstraat 11
2342 BH Oegstgeest
The Netherlands
+31 (0)85 000 2000

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