



AT800

Fasson®
TRANSFER PET WHITE
TOP - S8039 –
BG42WhBSS

A white polyester material featuring excellent chemical resistance of the thermal transfer print.

Combined with the high coat weight rubber hybridised acrylic adhesive featuring excellent chemical and heat resistance.

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.
- > High coat weight, rubber hybridised acrylic adhesive featuring extremely high peel adhesion values on rough - even contaminated – plastic surfaces; combined with high chemical and temperature resistance.
- > 20% higher conversion speed than competitive material without the necessity of cooling the material to avoid adhesive bleed or build-up.
- > UL and CSA recognised label material.

Facestock

A gloss white polyester film. The smooth surface is covered with a topcoat for excellent ink anchorage.

Basis weight: 76 g/m² ISO 536
Calliper: 50 µm ISO 534

Adhesive

S8039 is a rubber hybridised acrylic adhesive.

Liner

BG42Wh BSS: on both sides siliconized glassine paper, wood-free, super calandered and extremely tough and tear resistant despite its thinness.

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

Laminate

Total caliper: 147 µm ISO 534

Performance data

Initial Tack: 23 N/25mm FTM 9 glass
Peel Adhesion: 23 N/25mm FTM 2 steel 24 hrs.
Min. application temperature: +5 °C
Service temperature: -40 °C to +150 °C
Adhesive Type: rubber hybridised acrylic, solvent
Coat weight: 40 g/sqm FTM 12

Adhesive Performance

S8039 combines extreme high final adhesion on a wide variety of surfaces including textured and low surface energy substrates with excellent chemical and temperature resistance.

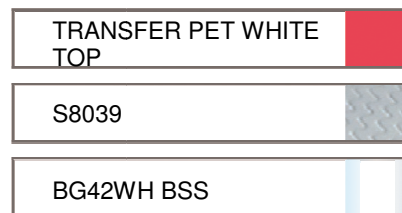
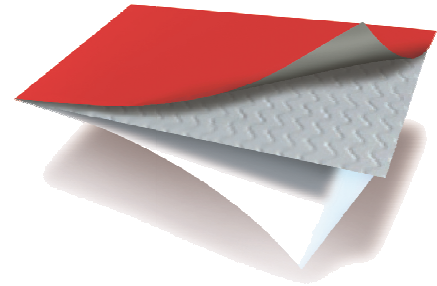
Applications and use

This product was specially developed for industrial labels and thermal transfer applications. The main area of application is the labeling of industrial products. Nameplates and logistics labels are typical examples. This product is distinguished by its high chemical resistance. For special requirements we strongly recommend application tests.

This is a premium product for the automotive industry using patented 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 or other rough or low surface energy surfaces. The product is briefly repositionable and then the adhesion increases to very high ultimate peel strength. S8039 products are engineered to be resistant to - also harsh - chemicals commonly found in the automotive and electronics industry.

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Conversion & printing

This product was specially developed for industrial labels and thermal transfer applications. Thanks to the special surface coating, excellent 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. This film can also be printed by all conventional roll label techniques.

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.

UL and CSA Recognitions

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).

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	32,0
Aluminum	33,0
Automotive lacquered panels	34,5
Glass	35,0
HDPE	26,0

Surface	N/25mm
Polycarbonate (PC)	32,5
Polyester (PET)	32,5
Polypropylene (PP)	32,5
Polystyrene (PS)	30,0

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	26,0	No change	0
Biodiesel	Stainless Steel	33,0	No change	0
Bioethanol E85	Glass	28,0	No change	2
Brake Fluid	Glass	33,0	No change	0
Diesel	Glass	34,0	No change	0,5
Engine Oil	Glass	32,5	No change	0
Gasoline	Glass	24,0	No change	3,5
Heptane	Glass	24,5	No change	4
Water, distilled	Aluminum	29,0	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+	3	20	++	A	++	++
Armor AXR8	3	15	++	A	++	++
DNP R300	3	15	++	A	++	++
DNP R510	3	20	++	A	++	++
limak SP330	3	15	++	A	++	++
ITW B324	3	15	++	A	++	++
Ricoh B110CR	3	15	++	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 AXR 600	4 "/s	+	A	++	o
Armor AXR 800	4 "/s	+	B	++	o
Ricoh B120 E	4 "/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.

	AXR7+	AXR8	R300	R510	SP330	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:

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, Hard Wax Polish: „Nigrin“ Hard Wax Polish

Appendix 2:

Compliance Data

UL – Underwriters Laboratories

File Number: MH27538

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

Substrate	Minimum Temperature (°C)	Maximum Temperature (°C)	Indoor Use	Outdoor Use
Acrylic paint	-40	150	X	X
Acrylic powder paint	-40	150	X	X
Alkyd paint	-40	150	X	X
Aluminum	-40	150	X	X
Epoxy paint	-40	150	X	X
Epoxy powder paint	-40	150	X	X
Galvanized steel	-40	150	X	X
Polyester paint	-40	150	X	X
Polyester powder paint	0	150	X	-
Polyurethane powder paint	-40	150	X	X
Stainless steel	-40	150	X	X
Unsaturated polyester - thermoset	-40	150	X	X
Nylon - polyamide	-40	100	X	X
Phenolic - Phenol Formaldehyde	-40	100	X	X
Acrylonitrile butadiene styrene (ABS)	-40	80	X	X
Polyphenylene oxide/ether (PPOX)	-40	80	X	-
Polystyrene (PS)	-40	80	X	X

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 Red” (indoor use only), “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”, Imak “SH-36”, “SP-330”, “SP-410”, “Primemark”, “Primemark 255”, Intermec “053258-2”, “054048-4”, “TMX 3200”, “TMX 1500”, ITW “B324”, “R-90”, “R-91”, “M-95”, Japan Pulp and Paper “Resin 1”, “Resin 2 Blue”, “Resin 2 Red” (indoor use only), “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 Chemicar “US-300”, United Barcode Industries “HR06”, Zebra “5095”, “5175”, “5100”, “5463”, “Z-1400”, “Z-3100”, “Z-4100” and “5555”.

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 (Type A).

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
Electrostatic Coated Metal C	Epoxy powder coat paint	+150
Electrostatic Coated Metal D	Polyurethane powder coat paint	+150
Plastic Group I	Phenolic, melamines, urea formaldehyde	+100
Plastic Group II	Polyphenylene oxide, polyphenylene sulphide	+80 (indoor use only)
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	Glass-filled polyester, glass-filled epoxy	+80

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

Astro-Med "RY", "RAF Blue", Armor "AXR8", "AXR600", "AXR-7+", Coding Products "5640 Blue", "5440 Red", DNP "R-300", "R-510", "R-510 Green", "R-510 Red" (indoor use only), "R-510 Blue", "TR4070", "TR6070", "TR6075", "Signature Series™ Resin", Datamax "SDR-A", "SDR-D", "SDR-5", "SDR-6", "SDR", "SDR-7", "SDR Millennium", Intermec "053258 2", "054048-4", ITW "R-90", Japan Pulp and Paper "Resin 1", Kurz "K-500", Mid-City Columbia "CGL-80HE", "MCC-23HE", NCR "Promark 3", "Matrix Resin", Peak "Ultra Premium", "Ultra Extreme", Ricoh "B110C", "B110CR", RSI ID Technologies "Pressiza S", "Pressiza K", "Pressiza X", Sato "Premier 1", Sony "5070", "TRX-75", Union Chemcar "US-300" and Zebra "5100".

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Warrenty

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