



AZ209

Fasson®
Transfer PET matt chrome
TOP – S8039-30 –
BG42wh BSS

A silver polyester material featuring excellent chemical resistance of the thermal transfer print. Combined with the rubber hybridised acrylic adhesive featuring excellent chemical and heat resistance. Ideal for labelling plastic substrates exposed to harsh chemicals and high temperatures, for example in the automotive industry.

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.
- > Rubber hybridised acrylic adhesive featuring high peel adhesion values on plastic surfaces; combined with high chemical and temperature resistance.
- > UL and c-UL recognised for indoor and outdoor use.

Facestock

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

Calliper: 50 µm ISO 534
Basis weight: 72 g/m² ISO 536

Adhesive

S8039-30 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. Without back imprint.

Basis weight: 64 g/m² ISO 536
Caliper: 0,055 mm ISO 534
Transparency: 45 % DIN 53147
Tensile Strength MD: ≥ 5 kN/m ISO 1924

This liner is not recommended for fanfolding.

Laminate

Total caliper: 135 µm

Performance data

Type: rubber hybridised acrylic, solvent
Coat weight: 30 g/sqm
Initial Tack: 920 N/m FTM 9 glass
Peel Adhesion: 900 N/m FTM 2 steel 24 hrs.
Min. Application temperature: +5 °C
Min. service temperature: -40 °C
Max. service temperature: +150 °C

Adhesive Performance

The adhesive S8039-30 features extremely high final adhesion on a wide variety of surfaces including textured and low surface energy substrates. Excellent chemical resistance.

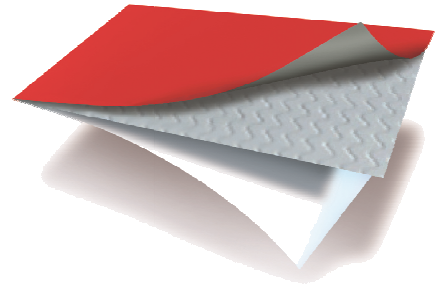
Applications and use

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 peelstrength. S8039 products are engineered to be resistant to - also harsh - chemicals commonly found in the automotive and electronics industry. Application tests are recommended.

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UL and CSA recognition

This product meets the requirements as stated in UL 969 and CSA G22.2 No. 0.15 for indoor and outdoor use. The UL file number is MH27538. For specific information on approved conditions, see appendix 2.

Conversion and printing

This product is EFI Jetrion qualified for UV inkjet printing. In addition to thermal transfer printing (see ribbon recommendation in appendix 2) the product can also be printed by all conventional roll label techniques, such as flexo, UV letterpress, silkscreen.

Unusually for such a high coatweight adhesive, this product can be converted normally thanks to the unique adhesive technology.

For easy diecutting sharp corners should be avoided. Specific testing is required.

Shelf life

Two years under storage conditions as defined by FINAT.

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	25,0
Aluminum	26,0
Automotive lacquered panels	27,5
Glass	29,0
HDPE	20,0

Surface	N/25mm
Polycarbonate (PC)	27,0
Polyester (PET)	27,0
Polypropylene (PP)	27,0
Polystyrene (PS)	24,5

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 at 180° peel.

Chemical	Test Substrate	N/25mm	Visual appearance	Edge Penetration (mm)
Ad Blue ¹	Stainless Steel	21,0	No change	0
Biodiesel	Stainless Steel	27,5	No change	0
Bioethanol E85 ²	Glass	23,0	No change	2
Brake Fluid ³	Glass	26,0	No change	0
Diesel ⁴	Glass	27,0	No change	0,5
Engine Oil ⁵	Glass	27,0	No change	0
Gasoline ⁶	Glass	19,5	No change	3,5
Heptane	Glass	20,0	No change	4
Water, distilled	Aluminum	24,0	No change	0
Windshield Washer	Stainless Steel	27,5	No change	0

¹ Aral

² CropEnergies CropPower85

³ DOT 4 Synthetic (One Way)

⁴ TOTAL

⁵ TOTAL quartz 700, 10 W 40

⁶ TOTAL Euro 95

Spec Code: AZ209

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	++	0
Armor AXR 800	4 "/s	+	D ¹	++	0
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 0: 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	AXR600	AXR800	B120 E
Ad Blue ¹	+	+	+	+	+	+	+	+	+	+
Anti-Freeze ²	+	+	+	+	+	+	+	+	+	+
Biodiesel	+	0	+	+	+	+	+	-	0	-
Bioethanol E85 ³	-	+	+	+	+	+	+	-	0	-
Brake fluid ⁴	-	+	+	+	0	+	+	-	0	-
Cleaner solvent ⁵	+	+	+	+	+	+	+	-	-	-
Engine oil ⁶	+	+	+	+	+	+	+	+	+	0
Gasoline ⁷	-	0	-	+	-	-	-	-	-	-
Hard wax polish ⁸	+	+	+	+	+	+	+	-	-	-
Isopropanol	+	+	+	+	+	+	+	-	0	-
Spirit	-	+	+	+	+	+	+	-	0	-

+: good (no change) 0: acceptable (minor change, still readable) -: poor

¹ Aral

² Speedfrost "Speedfroil" 1:1 in water

³ CropEnergies CropPower85

⁴ "ATE" SL DOT 4

⁵ "Caramba" Cold Cleaner

⁶ BP 15 W-40

⁷ Super unleaded

⁸ „Nigrin“ Hard Wax Polish

Appendix 2:

Compliance Data

UL – Underwriters Laboratories (UL969)

File Number: MH27538

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)	Indoor Use	Outdoor Use
Acrylic powder paint	-40	150	X	X
Aluminum	-40	150	X	X
Epoxy powder paint	-40	150	X	X
Galvanized steel	-40	150	X	X
Polyester powder paint	-40	150	X	X
Polyurethane powder paint	-40	150	X	X
Stainless steel	-40	150	X	X
Acrylonitrile butadiene styrene (ABS)	-40	80	X	X
Polyphenylene oxide/ether (PPOX)	-40	80	X	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”, “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”, Iimac “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”, “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”.

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, 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 A	Polyester powder coat paint	+150
Electrostatic Coated Metal C	Epoxy powder coat paint	+150
Electrostatic Coated Metal D	Polyurethane powder coat paint	+150
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 Jetrion 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", "R-510 Blue", "TR4070", "TR6070", "TR6075", "Signature Series™ Resin", Datamax "SDR-A", "SDR-D", "SDR-5", "SDR-6", "SDR", "SDR-7", "SDR Millenium", 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 Chemicar "US-300" and Zebra "5100".

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