

Facestock

A premium quality 50 µm gloss yellow, polymeric plastisized, cast PVC film.

Basis Weight	82 g/m ²	ISO 536
Caliper	50 µm	ISO 534

Adhesive

S8039 is a clear rubber hybridised acrylic adhesive.

Liner

BG55WH, a white 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	90 g/m ²	ISO 536
Caliper	78 µm	ISO 534

Laminate

Total Caliper	162 µm±10%	ISO 534
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Performance Data

Initial Tack	22 N/25mm	FTM 9 glass
Min. Application Temp.	+5 °C	
Service Temperature	-40 °C to 120 °C	
Adhesive Coat Weight	35 g/m ²	FTM12
Adhesive Type	rubber hybridised acrylic	
Peel Adhesion 90° - 24hr	22 N/25mm	FTM 2 st.st. 24hr

Adhesive Performance

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

Applications and Use

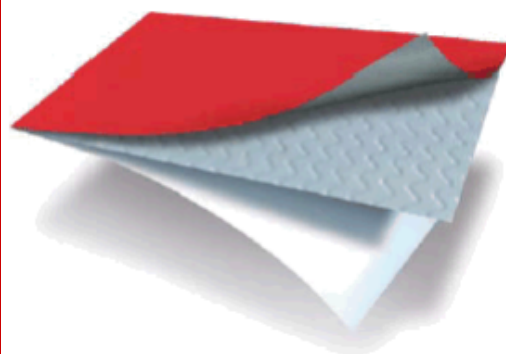
Transfer PVC 50 Cast Yellow is designed for use as identification labels, warning and instruction panels. It is typically used in the automotive, aeronautical and industrial machinery sector. This product can also be used in outdoor applications where long term direct exposure to sunlight is expected. A durability of 10 years (vertical exposure) is expected in middle-European conditions. Actual performance life will depend on substrate preparation and exposure conditions.

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 increased coat weight of this adhesive (35 g/m²) aids labelling rough substrates. 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.

BO946

Fasson ®

**TRANSF PVC 50 CAST YEL
S8039-BG55WH FSC**



TRANSF PVC50 CAST YEL-
LOW

S8039

BG55WH FSC

*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*

Because of the high coat weight and high tack of the adhesive, there is a risk of adhesive ooze. Special care has to be taken in the conversion process. It is recommended to contact the supplier of die cutting equipment to specify the most suitable tool. Good results have been achieved using a 60° cutting angle with laser hardening and a no-stick coating.

Conversion and Printing

In addition to very good thermal transfer print, the product can also be screenprinted. For other print techniques specific testing is required. This product is designed for roll to roll conversion and shows good die cutting performance.

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. This material complies with BS 5609:1986, Section two, Marine Immersion Test. To comply with BS 5609:1986 Section 3, the specific inks or ribbons have to be evaluated; tests can be performed upon request.

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	23,0
Aluminium	24,0
Automotive lacquered panels	23,0
Glass	25,5
HDPE	22,0
PP	23,5
Polycarbonate	23,5
Stainless Steel	26,0

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
Biodiesel	Glass	21,0	No change	0 mm
Brake Fluid	Glass	19,0	No change	0 mm
Diesel	Glass	21,0	No change	0 mm
Engine Oil	Glass	24,0	No change	0 mm
Gasoline	Glass	Fail	Fail	Fail
Heptane	Glass	16,0	No change	2 mm
Water, distilled	Aluminum	23,0	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

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	15	++	A	++	++
Armor AXR8	3	15	++	A	++	++
DNP R510	3	15	++	A	++	++
DNP TR6070	3	15	++	A	++	++
DNP TR6075	3	15	++	A	++	o
limak SP330	3	15	++	A	++	++
ITW B324	3	15	++	A	++	o
Ricoh B110CR	3	15	++	A	++	+
Ricoh B110CX	3	15	++	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	R510	TR6070	TR6075	SP330	B324	B110CR	B110CX
Anti-Freeze	+	+	+	+	+	+	+	+	+
Biodiesel	+	+	+	+	+	+	+	+	+
Brake fluid	-	+	+	+	+	o	+	+	+
Cleaner solvent	+	+	+	+	+	+	+	+	+
Engine oil	+	+	+	+	+	+	+	+	+
Gasoline	-	-	+	+	-	-	-	-	-
Hard wax polish	+	+	+	+	+	+	+	+	+
Isopropanol	+	+	+	+	+	+	+	+	+
Spirit	+	+	+	+	+	+	+	+	+

+: 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

Compliance Data

UL – Underwriters Laboratories (UL 969, Category PGJI2)

File Number: MH27538, Category PGJI2

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)
Acrylic paint	100	-40
Aluminum	100	-40
Epoxy powder paint	100	-40
Nylon - Polyamide	100	-40
Polycarbonate	100	-40
Polyester paint	100	-40
Polyester powder paint	100	-40
Polyurethane powder paint	100	-40
Stainless Steel	100	-40
ABS	80	-40
Polybutylene terephthalate (PBT)	80	-40
Polyethylene terephthalate (PET)	80	-40
Polystyrene (PS)	80	-40
Polyethylene (PE)	60	-40
Polypropylene (PP)	60	-40
Polyvinyl chloride (PVC)	60	-40

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

Armor	AXR 7+, AXR 8
Dainippon	R300, R510, TR6070, TR6075
ITW	B324
limak	SP-330
Italgrafica	TF335P
Ricoh	B110CR, B110CX

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	+100
Electrostatic Coated Metal A	Polyester powder coat paint	+100
Electrostatic Coated Metal C	Epoxy powder coat paint	+100
Electrostatic Coated Metal D	Polyurethane powder coat paint	+100
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

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

Armor	AXR 7+, AXR 8
Dainippon	R300, R510, TR6070, TR6075
ITW	B324
limak	SP-330
Italgrafica	TF335P
Ricoh	B110CX

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