



AE359

Fasson®
TRANSFER PVC 50
CAST YELLOW
S8065 – BG50WH

A highly flexible, yellow cast vinyl combined with a high coat weight high tack adhesive.

Features excellent UV resistance for up to 10 years outdoor use. Ideal for labelling irregular substrates.



Key Features

- > Highly flexible cast vinyl.
- > Good TT printability.
- > High coat weight, high tack solvent acrylic adhesive.
- > Excellent UV resistance – for up to 10 years outdoor usage.
- > Self extinguishing according to FMVSS302.
- > UL and CSA recognised label material.

Facestock

A premium quality 50µm yellow cast PVC film.

Basis weight: 82g/m² ISO 536
Calliper: 50 µm ISO 534

Adhesive

S8065 is a permanent acrylic based adhesive.

Liner

BG50 white: siliconized glassine paper, wood-free, super calandered and extremely tough and tear-resistant despite its thinness. Without back imprint.

Basis weight: 78 g/m² ISO 536
Caliper: 68 µm ISO 534
Transparency: 41 % DIN 53147
Tensile Strength MD: 108 N/15mm ISO 1924-2

Laminate

Total caliper: 158 µm

Performance data

Type: Solvent Acrylate
Coat weight: 40 g/sqm
Initial Tack: 400N/m FTM 9 glass
Peel Adhesion: 540N/m FTM 2 steel 24 hrs.
Min. application temperature: +5 °C
Min. service temperature: -40 °C
Max. service temperature: +120 °C

Adhesive Performance

S8065 is specially formulated for adhesion to apolar and rough surfaces.

Applications and use

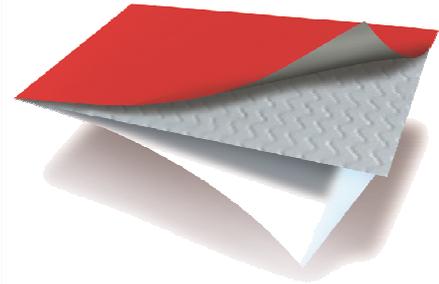
Transfer PVC 50 Cast Yellow / S8065 is designed for use as identification labels, warning and instruction panels. It is typically used in the automotive, aeronautical and industrial machinery sector. The yellow equates to RAL 1003. Thanks to the apolar adhesive and flexible face material good adhesion can be achieved onto most surfaces including low surface energy plastics and textured surfaces such as structured metals.

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 conditions¹.

For special requirements application tests are recommended.

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BG50WH	

¹ The durability is based on middle European exposure conditions. Actual performance life will depend on substrate preparation, exposure conditions and maintenance of the marking. For instance, in the case of labels facing south, in areas of long high temperature exposure such as southern European countries, in industrially polluted areas or high altitudes exterior performance will be decreased.

Flammability according to FMVSS 302

This product is self extinguishing; the burning rate is 0 mm/min.

Compliance

Information on UL and CSA recognitions as well as statements on REACH and RoHS regulations can be found in Appendix 2 of this data sheet.

Conversion/printing

In addition to very good thermal transfer print, the product can also be screenprinted. This product is qualified by Durst for UV inkjet printing. For other print techniques specific testing is required.

This product is designed for roll to roll conversion and shows good die cutting performance.

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	15,0
Aluminium	16,0
Automotive lacquered panels	17,5
Glass	17,0
HDPE	8,0
LDPE	7,5
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)
Biodiesel	Glass	14,0	No change	0
Brake Fluid	Glass	11,0	No change	0
Diesel	Glass	16,0	No change	0
Engine Oil	Glass	12,0	No change	1
Gasoline	Glass	Fail	Fail	Fail
Heptane	Glass	16,0	No change	1
Water, distilled	Aluminium	16,0	No change	0

Chemicals:

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	15	++	A	++	++
Armor AXR8	3	15	++	A	++	++
DNP R510	3	15	++	A	++	++
DNP TR6070	3	15	++	A	++	++
DNP TR6075	3	15	++	A	++	o
limak SP-330	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 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.

Application Surface	Minimum Temperature (°C)	Maximum Temperature (°C)	I	I/O
Acrylic paint	-40	+100		X
Aluminum	-40	+100		X
Epoxy powder paint	-40	+100		X
Polyester paint	-40	+100		X
Polyester powder paint	-	+100	X	
Nylon - Polyamide	-40	+100		X
Polyurethane powder paint	-40	+100		X
Stainless steel	-40	+100		X
Polycarbonate	-40	+100		X
ABS	-40	+80		X
Polyethylene (PE)	-23	+40		X
Polypropylene (PP)	-23	+40		X
Polystyrene (PS)	-40	+80		X
Polyvinyl chloride (PVC)	-23	+40		X

I: indoors I/O: indoors and outdoors

The UL certification includes the printing with one or more of the following thermal transfer ribbons:

Armor "AXR7+", "AXR8", DNP "R510", "TR6070", "TR6075", limak "SP330", ITW "B324", Ricoh "B110CR", "B110CX".

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. 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	+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	Glass-filled polyester, glass-filled epoxy	+80

The C-UL certification includes the printing with the following thermal transfer ribbons: Armor “AXR7+”, “AXR8”, DNP “R510”, “TR6070”, “TR6075”, limak “SP330”, ITW “B324”, Ricoh “B110CX”.

RoHS / Regulation 2002/95/EU

The substances listed in article 4 lid 1 of 2002/95/EU (RoHS) are not intentionally used in this product. The concentration limits of these substances will not exceed the set maximum concentration limits as provided in the proposed amendment for 2002/95/EU.

REACH Regulation

Substances of Very High Concern (SVHC's), as included in the per 16.12.2013 updated Candidate List, are not added to this article.

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Warranty

All statements, technical information and recommendations about AVERY DENNISON products are based upon tests believed to be reliable but do not constitute a guarantee or warranty. All AVERY DENNISON products are sold with the understanding that PURCHASER has independently determined the suitability of such products for its purposes. AVERY DENNISON products are warranted to be free of defects in material or workmanship for a period of one year from the date of shipment. Any product shown to the satisfaction of AVERY DENNISON within the time provided to be so defective shall be replaced without charge of AVERY DENNISON may issue credit in such amount as it seems reasonable however, in no event shall AVERY DENNISON be responsible for claims beyond the replacement value of the defective product or in any way

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