

Product Data
FASSON Transfer PET white TOP / S8030 / BG42wh**ALC454 / AD222**
Issue date: 01.02.2010**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
Caliper: 0.050 mm ISO 534

Adhesive

The S8030 is a high strength permanent solvent based acrylic adhesive. It features a balanced adhesive performance on a wide variety of substrates including low energy plastics combined with good chemical resistance.

Type: modified solvent acrylic
Coat weight: 24 g/sqm
Initial Tack: 600 N/m FTM 9 glass
Peel Adhesion: 500 N/m FTM 2 steel 24 hrs.
Min. Application temperature: +5 °C
Min. service temperature: - 40 °C
Max. service temperature: +150 °C

Liner

BG42Wh is a wood-free, super-calendered siliconized glassine paper. It is extremely tough and tear-resistant despite its thinness. Without back imprint.

Basis weight: 65 g/m² ISO 536
Caliper: 0,058 mm ISO 534
Transparency: 48 % DIN 53147
Tensile Strength MD: 108 N/15mm ISO 1924-2

This liner is not recommended for fanfolding.

Total construction caliper

0,132 mm

Typical Values

Typical values, not for specification use:
see Appendix 1.

Applications and use

Transfer PET white TOP/S8030 is designed for conversion into identification, warning and tracking labels for durable goods such as electrical and electronic items.

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.

This product features excellent thermal transfer printability with resin ribbons thanks to the special surface coating.

For special requirements we strongly recommend application tests.

Printing and conversion

Excellent results can be achieved with thermal transfer printers equipped with conventional or near-edge print heads using resin ribbons.

The product can also be printed by all conventional roll label techniques, including flexo, UV letterpress, silk-screen. Specific testing is required.

For easy diecutting sharp corners should be avoided.

UL and CSA recognition

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. For specific information on approved conditions, see appendix 2.

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.

Shelf life

Two years when stored at 22 °C and 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	13,0
Aluminum	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 at 180° peel.

Chemical	Test Substrate	N/25mm	Visual appearance	Edge Penetration (mm)
Ad Blue ¹	Aluminum	14,0	No change	0
Biodiesel	Glass	13,9	No change	0
Bioethanol E85 ²	Glass	13,1	No change	2
Brake Fluid ³	Glass	12,0	No change	0
Diesel ⁴	Glass	13,0	No change	0
Engine Oil ⁵	Glass	12,5	No change	0
Gasoline ⁶	Glass	9,0	No change	4
Heptane	Glass	8,0	No change	4
Water, distilled	Aluminum	10,0	No change	0

¹ Aral² CropEnergies CropPower85³ DOT 4 Synthetic (One Way)⁴ TOTAL⁵ TOTAL quartz 700, 10 W 40⁶ TOTAL Euro 95

Product Data
FASSON Transfer PET white TOP / S8030 / BG42wh

ALC454 / AD222
 Issue date: 01.02.2010

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 resis- tance
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 resis- tance
Armor AXR 600	4 "/s	+	A	++	o
Armor AXR 800	4 "/s	+	B	++	o
Ricoh B120 E	4 "/s	++	A	+	+

ANSI 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 ¹	+	+	+	+	+	+	+	+	+	+
Anti-Freeze ²	+	+	+	+	+	+	+	+	+	+
Biodiesel	+	o	+	+	+	+	+	-	o	-
Bioethanol E85 ³	-	+	+	+	+	+	+	-	o	-
Brake fluid ⁴	-	+	+	+	o	+	+	-	o	-
Cleaner solvent ⁵	+	+	+	+	+	+	+	-	-	-
Engine oil ⁶	+	+	+	+	+	+	+	+	+	o
Gasoline ⁷	-	o	-	+	-	-	-	-	-	-
Hard wax polish ⁸	+	+	+	+	+	+	+	-	-	-
Isopropanol	+	+	+	+	+	+	+	-	o	-
Spirit	-	+	+	+	+	+	+	-	o	-

+: good (no change) o: 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

File Number: MH27538

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

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

The UL certification includes the printing with one or more of 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", Imak "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 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 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 on or more of the following thermal transfer ribbons:
Armor "AXR600", "AXR7+", "AXR8", DNP "R300", "R510", "TR6075", ITW "B324", Ricoh "B110CR".

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 or AVERY DENNISON may issue credit in such amount as it deems reasonable however, in no event shall AVERY DENNISON be responsible for claims beyond the replacement value of the defective product or in any way liable or responsible for consequential or incidental damages.

NO EXPRESS WARRANTIES AND NO IMPLIED WARRANTIES, WHETHER OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR USE, OR OTHERWISE, EXCEPT AS SET FORTH ABOVE (WHICH IS MADE EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES) SHALL APPLY TO PRODUCTS SOLD BY AVERY DENNISON. AVERY DENNISON SPECIFICALLY DISCLAIMS AND EXCLUDES ALL OTHER SUCH WARRANTIES. NO WAIVER, ALTERATION, ADDITION OR MODIFICATION OF THE FOREGOING CONDITIONS SHALL BE VALID UNLESS MADE IN WRITING AND SIGNED BY AN EXECUTIVE OFFICER OF AVERY DENNISON.

No salesman, representative, or agent of AVERY DENNISON is authorized to give any guarantee, warranty or make any representation contrary to the above.