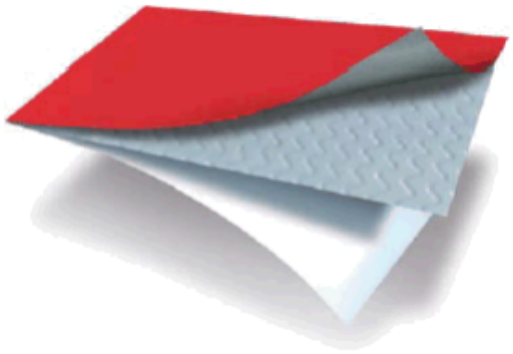
AA669

Fasson ®

TRANSFER PET WHITE TOP S333-BG42WH FSC



TRANSFER PET WHITE TOP	
S333	
BG42WH FSC	

Facestock

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

Basis Weight	76 g/m²	ISO 536
Caliper	50 µm	ISO 534

Adhesive

S333 is an excellent, general purpose industrial grade clear adhesive.

Liner

BG42 white, a 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	62 g/m²	ISO 536
Caliper	55 µm	ISO 534
Transparency	50 %	DIN 53147

Laminate

Total Caliper	132 µm±10%	ISO 534

Performance Data

Initial Tack	6.75 N/25mm	FTM 9 Glass
Peel Adhesion 90°	10.5 N/25mm	FTM2 st.st.
Min. Application Temp.	5 °C	
Service Temperature	-40 °C to 150 °C	
Adhesive Coat Weight	26 g/m²	FTM12
Adhesive Type	Emulsion Acrylic	

Adhesive Performance

S333 features low adhesive ooze, high initial tack and ultimate adhesion on high surface energy substrates.

Applications and Use

Transfer PET white TOP is designed for conversion into identification, warning and tracking labels for durable goods such as automotive parts, electronic devices and home appliances. This product is distinguished by the high chemical resistance of the thermal transfer print. For special requirements we strongly recommend application tests.

The adhesive S333 is globally available.

Conversion and Printing

Very good results can be achieved with thermal transfer printers equipped with conventional or near-edge print heads using resin ribbons. Transfer PET white TOP can also be printed by all conventional roll label techniques, including flexo, UV letterpress, silkscreen. This material is qualified for UV inkjet printing by the following printer manufacturers: EFI Jetrion, Domino (n610i), Durst (TAU 330 RSC) and Xeikon (PX3000). Results of durability tests are available on request. For easy diecutting sharp corners should be avoided.

Compliance and Approvals

Sustainable alternative: This material is available with 70% recycled content in the face material under a *different product code*.

FSC
www.fsc.org
FSC® C004451
The mark of responsible forestry

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

This product is UL and C-UL recognized (UL 969, CSA C22.2 No. 0.15). The UL file number is MH27538.

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 recognition

This product meets the requirements as stated in UL 969, and is UL recognized 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	15,0
Aluminium	11,5
Automotive lacquered panels	13,0
Glass	12,5
HDPE	5,0
LDPE	3,0
PA6	10,5
Stainless Steel	10,0

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
Ad Blue	Aluminium	9,5	No change	1 mm
Biodiesel	Glass	11,9	No change	0 mm
Bioethanol E85	Glass	10,6	No change	2 mm
Brake Fluid	Glass	13,6	No change	0 mm
Diesel	Glass	11,3	No change	0 mm
Engine Oil	Glass	13,0	No change	0 mm
Gasoline	Glass	7,2	No change	4 mm
Heptane	Glass	8,9	No change	2 mm
Water, distilled	Aluminium	13,6	No change	2 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	20	++	A	++	++
Armor AXR8	3	15	++	A	++	++
DNP R300	3	15	++	A	++	++
DNP R510	3	20	++	A	++	++
Iimak 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

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Chemicals:
Ad Blue: Aral, Anti-Freeze: Speedfrost "Speedfroil" 1:1 in water, Bioethanol E85: CropEnergies CropPower85
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)	I	O	Additional Conditions
Acrylic paint	150	-40	X	X	O
Aluminum	150	-40	X	X	O
Epoxy paint	150	-40	X	X	O
Galvanized steel	150	-40	X	X	O
Porcelain	150	-40	X	X	O
Stainless steel	150	-40	X	X	O
Alkyd paint	100	-40	X	X	O
Melamine	100	-40	X	-	O
Nylon - Polyamide	100	-40	X	-	O, G
Polyester paint	100	-40	X	X	O
Unsaturated polyester - thermoset	100	-40	X	-	O
Acrylonitrile butadiene styrene	80	-40	X	-	O
Polycarbonate	80	-40	X	X	O
Polyphenylene oxide/ether	80	-40	X	-	O
Polystyrene	80	-40	X	-	O
Alkyd painted plastic	60	-40	X	-	O
Polyethylene	60	-	X	-	O

I: Indoor use O: outdoor use
G: Occasional exposure to gasoline (splashing) O: Occasional exposure to lubricating oils

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

Armor	AXR 7+
Astro-Nova	R-5
Iimak	SP-330
Japan Pulp and Paper	Sigma P
Ricoh	B110C
Sato Corp.	Premier 1
Sony Chemials	4070, 4072
Zebra Technologies	5095, 5175

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Warranty
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