

Product Data**FASSON Transfer PET 75 Matt Silver / AL170 / BG42WH****AMC032**

Issue date: 01.02.2010

Facestock

A matt silver polyester film with backside metallization. The surface is covered with a matt topcoat designed for thermal transfer printing.

Basis weight: 110 g/m² ISO 536
Caliper: 0,085 mm ISO 534

Adhesive

AL170 is a strong, permanent, solvent-based acrylate adhesive which is distinguished by very high ageing stability. It features very high resistance against chemicals and heat.

Type: solvent based acrylate
Coat weight: 24 gsm
Initial Tack: 240 N/m FTM 9 glass
Peel Adhesion: 550 N/m FTM 2 steel 24 hrs.
Min. application temperature: 0 °C
Min. service temperature: -80 °C
Max. service temperature: +150 °C

Liner

BG42 white: siliconized glassine paper, wood-free, super calandered and 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: 105 N/15mm MD

This liner is not recommended for fanfolding.

Total construction caliper

0,164 mm

Typical Values

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

Applications and use

Transfer PET 75 Matt Silver was specially developed for industrial labels and thermal transfer applications. Thanks to the special surface coating, excellent results can be achieved with thermal transfer printers equipped with conventional or near-edge print heads and using either wax/resin or pure resin ribbons. The main area of application for Transfer PET Matt Silver / AL170 is the labelling of industrial products. Nameplates and logistics labels are typical examples. This product is distinguished by its high chemical resistance. Thanks to the high caliper of the front material it can be manually applied easier than other polyester labels.

For special requirements we strongly recommend application tests.

Printing and conversion

In addition to thermal transfer printing the product can also be printed by all conventional roll label techniques, such as flexo, UV letterpress, silkscreen.

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.

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**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	15,0
Automotive lacquered panels	16,5
Glass	18,0
PA6	15,0
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)
Ad Blue ¹	Aluminium	18,0	No change	0
Biodiesel	Glass	20,0	No change	0
Bioethanol E85 ²	Glass	17,0	No change	2
Brake Fluid ³	Glass	16,0	No change	0
Diesel ⁴	Glass	19,0	No change	0
Engine Oil ⁵	Glass	20,5	No change	0
Gasoline ⁶	Glass	14,0	No change	6
Heptane	Glass	16,0	No change	4
Water, distilled	Aluminum	19,0	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

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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+	4	15	+	D ¹	++	++
DNP R300	3	15	++	D ¹	++	+
limak SP330	3	15	++	D ¹	++	0
ITW B324	3	15	+	D ¹	++	0
Ricoh B110A	5	15	++	D ¹	++	++
Ricoh B110CX	3	15	+	D ¹	++	++

Near 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 APR 600	6 "/s	++	D ¹	++	0
DNP TR4500	6 "/s	++	D ¹	++	0
Ricoh B120 Ex2	6 "/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+	R300	SP330	B324	B110A	B110 CX	APR 600	TR 4500	B120 E
Ad Blue ¹	+	+	+	+	+	+	+	+	+
Anti-Freeze ²	+	+	+	+	+	+	0	0	0
Biodiesel	+	+	+	+	0	+	-	-	-
Bioethanol E85 ³	+	+	+	+	0	+	-	-	-
Brake fluid ⁴	0	0	+	+	0	0	0	0	0
Cleaner solvent ⁵	+	+	+	+	+	+	-	-	-
Engine oil ⁶	+	+	+	+	+	+	+	+	+
Gasoline ⁷	0	0	0	0	0	0	-	-	-
Hard wax polish ⁸	+	+	+	+	+	0	-	-	-
Isopropanol	+	+	+	+	+	+	0	0	0
Spirit	+	+	+	+	+	0	0	0	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

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**Appendix 2:
Compliance Data****UL – Underwriters Laboratories**

File Number: MH27538

This material is UL recognized for indoor or outdoor use for exposure to high humidity or occasional exposure to water.

Substrate	Minimum Temperature (°C)	Maximum Temperature (°C)
Acrylic paint	-40	150
Alkyd paint	-40	150
Aluminum	-40	150
Galvanized steel	-40	150
Polyester paint	-40	150
Stainless steel	-40	150
Polystyrene (PS)	-40	80
Acrylonitrile butadiene styrene (ABS)	-40	60

The UL certification includes the printing with one or more of the following thermal transfer ribbons: Armor "APR5", "APR600", "AXR7+", "AXR8", Astro-Med "RV2", "R5", DNP "TR4500", "TR6075", Graficor "GC14", "GC12", Iimak "SP330", ITW "B324", Kurz "K501", Ricoh "B-110A", "B-110CX", "B120 Ex2", Pelikan "T016", "T001".

CSA – Canadian Standards Association

UL has tested this product according to the requirements described in CSA C22.2 No. 0.15-01. 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 VI	ABS, styrene, styrene acrylonitrile	80

The C-UL certification includes the printing with:

Armor "APR 600", "AXR7+", "AXR8", DNP "TR4500", "TR6075", Iimak "SP330", ITW "B324", Ricoh "B110A", "B110CX", "B120 Ex2".

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Warranty

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