ALTEC
INDUSTRIAL IDENTIFICATION

Technical datasheet

A350

MATT FINISHED METALLIC POLYESTER

Ask for UL regulations

Description

Transfer PET matt chrome TOP was specially developed for labels on Durables Goods, including automotive parts, electronic equipment and home appliances. This is a premium product for the automotive industry using RHA (rubber hybridised acrylic) adhesive technology. It is designed primarily for creating labels to be applied onto low surface energy plastic automotive parts and lacquers or other rough or low surface energy surfaces. This product is engineered to be resistant to - also harsh - chemicals commonly found in the automotive and electronics industry.

Material	Polyester	**Temperature**	-40°C / 150°C
Finishing	Matt	**Certificates**	UL / CSA / RoHS
Color	Silver	**Print technology**	Thermal transfer
Adhesive	Rubber hybridised acrylic (45 g/m²)	**Ribbon(s)**	AR-10 / AR-01

Details

Facestock
A matt finished metallic polyester film. The smooth surface is covered with a topcoat for excellent ink anchorage.

Basis weight:	72 g/m²	ISO 536
Caliper:	0,050 mm	ISO 534

Adhesive
Rubber hybridised acrylic adhesive with extremely high final adhesion on a wide variety of surfaces including textured and low surface energy substrates. Excellent chemical resistance.

Type:	rubber hybridised acrylic, solvent
Coat weight:	45 g/sqm
Initial Tack:	1030 N/m FTM 9 glass
Peel Adhesion:	1060 N/m FTM 2 steel 24 hrs.
Min. Application temperature:	+5°C
Min. service temperature:	-40 °C
Max. service temperature:	+150 °C

Liner
BG42Wh BSS: on both sides siliconized glassine paper, wood-free, super calandered and extremely tough and tear-restistent despite its thinness. Without back imprint.

Basis weight:	64 g/m² ISO 536
Caliper:	0,055 mm ISO 534
Transparency:	45 % DIN 53147
Tensile Strength MD:	5 kN/m ISO 1924

This liner is not recommended for fanfolding.

Total construction caliper
0,150 mm

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Physical data / Test results

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	35,0
Aluminium	35,5
Aotomotive lacquered panels	35,0
Glass	37,0
HDPE	32,0
LDPE	31,0

Surface	N/25mm
PA6	36,0
Polycarbonate (PC)	37,0
Polyester (PET)	37,5
Polypropylene (PP)	34,0
Polystyrene (PS)	31,0
Stainless steel	37,0

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 (mm)
Ad Blue	Stainless steel	28,0	No change	0
Biodiesel	Stainless steel	35,0	No change	0
Bioethanol E85	Glass	29,0	No change	2
Brake Fluid	Glass	35,7	No change	0
Diesel	Glass	34,5	No change	0,5
Engine oil	Glass	36,5	No change	0
Gasoline	Glass	22,7	No change	4,5
Heptane	Glass	23,5	No change	5
Water, distilled	Aluminium	29,5	No change	0
Windshield washer	Stainless steel	31,5	No change	0

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

Ribbons

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.

	AR-02	AR-01	AR-10
Ad Blue	+	+	+
Anti-Freeze	+	+	+
Biodiesel	+	+	+
Bioethanol E85	-	+	+
Brake fluid	-	+	o
Cleaner solvent	+	+	+
Engine oil	+	+	+
Gasoline	-	+	-
Hard wax polish	+	+	+
Isopropanol	+	+	+
Spirit	-	+	+

+ = good (no change) o = acceptable (minor change, still readable) - = poor

Chemicals

Ad Blue: Aral, Anti-Freeze: Speedfrost "Speedfroil" 1:1 in water, Bioethanol E85: CropEnergies CropPower85

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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

Storage

Two years under storage conditions as defined by FINAT (20-25°C; 40-50%RH)

Certificates

UL / CSA
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.

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