ALTEC
INDUSTRIAL IDENTIFICATION

Technical datasheet

A348

GLOSS FINISHED WHITE POLYESTER

Description

A white polyester material featuring excellent chemical resistance of the thermal transfer print. Combined with the high coat weight rubber hybridised acrylic adhesive featuring excellent chemical and heat resistance. Ideal for labelling very rough plastic substrates exposed to harsh chemicals and high temperatures, for example in the industry.

Material	Polyester (45 g/m²)	**Temperature**	-40°C / 150°C
Finishing	Gloss	**Print technology**	Thermal transfer
Color	White		
Adhesive	Rubber hybridised acrylic (45 g/m²)		

Details

Facestock

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

Basis Weight	76 g/m²	ASTM D 4321
Caliper	50 µm	ASTM D 4321

Adhesive

Rubber hybridised acrylic (RHA) adhesive

Liner

On both sides siliconized glassine paper, woodfree, super calandered and extremely tough and tear-restistent despite its thinness.

Basis Weight	64 g/m²	ISO 536
Caliper	55 µm	ISO 534
Transparency	45 %	DIN 53147

Laminate

Total caliper	152 µm±10%	ISO 534

Performance data

Initial Tack	27 N/25mm	FTM 9 glass
Min. Application Temp.	5 °C	
Service temperature	-40°C to 150°C	
Adhesive Type	rubber hybridised acrylic, solvent	
Adhesive weight	45 g/m²	FTM12
Peel Adhesion	90° 27 N/25mm	FTM 2 st.st. 24hr

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

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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
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)

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Certificates

REACH

Please contact Altec for the latest REACH document available.

RoHS

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