

TECHNICAL DATA SHEET

Revision date: 12.06.2018

Print date: 19.06.2018



Aluply 0,5

SECTION 1: Product Description, Applications, Supplier

Product Description

Coated aluminium sheets, which are suitable for laser engraving. Thickness: 0,5 mm

Applications

The material is used for the production of signplates. Letters and numbers will be black after engraving by laser light.

Details of the supplier of the technical data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

ECKART SIGNPLASTICS GMBH

Technologiapark 10-12

91522 Ansbach

Germany

phone: +49 (0) 981 / 48 75 5-0

fax: +49 (0) 981 / 48 75 5-22

e-Mail: info@eckartgmbh.de

web site: www.eckartgmbh.de

SECTION 2: Hazards identification

This material is not hazardous under normal conditions.

SECTION 3: Technical Information

Metal Specification

Alloy: EN AW-3005 [Al Mn1 Mg0,5] to EN 573-3

Temper: H48

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Mechanical Properties:	Tensile strength Rm: 205 – 250 MPa Proof stress Rp 0,2: ≥ 180 Mpa Elongation A50 : ≥ 2 % (measured in transverse direction, after painting process)
Thickness:	0.5 mm (incl. paint), metal thickness: 0.47 mm +/- 0.02 mm
Coil widths:	variable, as agreed in order Tolerance: +0.2 / -0 mm for width <300 mm and +0.4 / -0 mm for width <500 mm
Sheet dimension:	1200 x 610 mm or as agreed in order Width tolerance: +2 / -0 mm Length tolerance: +4 / -0 mm

Coating and Coating Properties

Pretreatment:	degreased and chemical pretreated
Coat systems:	polyester / polyurethane
Colours:	metallic, silver
Coat thickness:	app. 28 µm +/- 4 µm (black) + 15 µm +/- 3 µm (metallic)
Appearance:	the coating is free from imperfections liable to impair the performance
Paint adhesion:	no loss of adhesion or delamination after indentation, test with and adhesion tape on a cross hatched surface Avoid contact with strong solvents.
Screen Printing:	The surface is suitable for screen printing with most common used inks. Tests must be done carefully before production start.
Laser engraving:	The surface is suitable for laser engraving. Tests must be done carefully before production start.
Bottom side:	degreased, pretreated and painted with protective lacquer (app. 3 µm thickness)
Temperature resistance:	-20°C, but avoid deforming in this condition max. 120°C (short-term: < 1 min) max. 80°C (long-term: > 60 min)

SECTION 4: Handling and Storage

The sheets must be stocked in a dry and clean place to ensure the processing without any problems.

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SECTION 5: Environmental Statement

This material is conform to the EU Directive 2002/95/EC of the European Parliament ('RoHS' = Restriction of the use of certain Hazardous Substances in electrical and electronic equipment). This means, that this material is free of restricted substances like lead, cadmium, mercury, hexavalent chromium, polybromated biphenyls (PBB) and polybromated diphenyl ethers (PBDE).

SECTION 6: Other information

The above state information is based on the present state of knowledge and experience. The data sheet describes products in respect of safety requirements. This information cannot be considered as a quality or product warranty. The product is suitable only for the above mentioned standard usage parameters. The manufacturer declines any responsibility in case of improper use of the product when the product is exposed to stresses exceeding the values stated herein.