

Laserfoil ELF/P material data sheet

Product

Laserfoil ELF/P is made of double layer, brittle acrylic film, which is suitable for laser engraving. The material thickness is between 0,095-0,118 mm without liner, depending on the color.

Material specifications

Backing material:	Acrylatfoil	
Adhesion:	> 1,8 N/cm	
Peel off force from liner:	0,5-10 cN/cm	
Typ of adhesive:	Acrylat	
Thickness:	0,09-0,118 mm (± 0,005 mm)	
Color:	black, white, silver, red or yellow	
Laser capability: Temp. resist. short term:	Surface suitable for laser engraving and laser cutting 270°C	
Temp. resist. long term:	120°C	
Frost resistance:	-40°C	
Storage conditions:	23°C, 50% RH, stored in original box	
RoHs:	RoH compliant material	
Material resistance:	Drilling emulsion Alusol 41B FHO 12%	medium
	Slideway oil BD68	very good
	Slideway oil Divinol T6 EP ISO 68	very good
	Hydraulic oil HLP46	very good
	Transmission oil GEM 1-150N	very good
	Antifreeze Glysantin G48, S1, SF+	very good
	Hydraulic oil Renolin ZAF 46 DT Drilling emulsion Jokisch 10%	very good
Wipe resistance:	Benzine	greater than 100,000 cycles
	Dilution	greater than 1,000 cycles
	Grease with graphite	greater than 100,000 cycles
	Lubricating oil	greater than 100,000 cycles
	Artificial perspiration	greater than 100,000 cycles
	Hydraulic oil Drilling emulsion Acetone	greater than 100,000 cycles
	Water	greater than 100 cycles
	Spirit	greater than 100,000 cycles
UV resistance	non-fade	
Laser labelled with mp-LM1 Arizona test (4600 MJ/year)		