

## 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 ( $\pm$ 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% Slideway oil BD68 Slideway oil Divinol T6 EP ISO 68 Hydraulic oil HLP46 Transmission oil GEM 1-150N Antifreeze Glysantin G48, S1, SF+ Hydraulic oil Renolin ZAF 46 DT Drilling emulsion Jokisch 10%	medium very good very good very good very good very good very good very good
Wipe resistance:	Benzine Dilution Grease with graphite Lubricating oil Artificial perspiration Hydraulic oil Drilling emulsion Acetone Water Spirit	greater than 100,000 cycles greater than 1,000 cycles greater than 100,000 cycles greater than 100,000 cycles greater than 100,000 cycles greater than 100,000 cycles greater than 100 cycles greater than 100,000 cycles greater than 1,000 cycles
UV resistance		non-fade
Laser labelled with mp-LM1 Arizona test (4600 MJ/year)		