

LM Laser Mat (metallic; white) material data sheet

Product

LM Laser Mat is a two-layer material with a UV-resistant coloured topcoat for laser engraving. Optionally available with adhesive film (HF), self-adhesive film (SK) or strong self-adhesive film (SKS). The material thickness is 0.8 mm.

Material specifications

Material base:	ABS / hot stamping foil	
Cover layer:	Polyester film with lacquer coating approx. 19 µm	
Material thickness:	0.8 mm	
Finish:	matt	
Colour:	metallic; white	
Laser capability:	Surface suitable for laser engraving	
Temperature resistance:	-20° C to +85° C	
 Tensile strength:	44 N/mm ² DIN 53455	
Elongation:	30% DIN 53455	
Impact strength:	no break DIN 53453	
Notched impact strength:	15 kJ/m ² DIN 53453	
Ball pressure hardness:	89 N/mm ² DIN 53456	
 RoHs:	RoHs compliant material	
 Material resistance:	Drilling emulsion Alusol 41B FHO 12%	very good
	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	very good
	Drilling emulsion Jokisch 10%	very good
 Wipe resistance:	Benzine	greater than 1.000 Cycles
	Dilution	greater than 10 Cycles
	Grease with graphite	greater than 100.000 Cycles
	Lubricating oil	greater than 100.000 Cycles
	Artificial sweat	greater than 100.000 Cycles
	Hydraulic oil	greater than 100.000 Cycles
	Drilling emulsion	greater than 100.000 Cycles
	Acetone	greater than 0 Cycles
	Water	greater than 100.000 Cycles
	Spirit	greater than 1.000 Cycles
 UV resistance		
Laser labelled with mp-LM1 Arizona test (4600 MJ/year)		non-fade