

LM Laser Mat (yellow) 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:	yellow	
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% 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%	very good very good very good very good very good very good very good very good
Wipe resistance:	Benzine Dilution Grease with graphite Lubricating oil Artificial sweat Hydraulic oil Drilling emulsion Acetone Water Spirit	greater than 1.000 Cycles greater than 10 Cycles greater than 100.000 Cycles greater than 100.000 Cycles greater than 100.000 Cycles greater than 100.000 Cycles greater than 0 Cycles greater than 100.000 Cycles greater than 1.000 Cycles
UV resistance	Laser labelled with mp-LM1 Arizona test (4600 MJ/year)	non-fade