

# LASER CUTTING MATERIALS COMPARISON - Technical Datasheet



MATERIAL	TYPE	DENSITY	SWELLING (24 H)	TENSILE STRENGTH (23°C)	ELONGATION AT BREAK	CHARPY IMPACT RESISTANCE UNNOTCHED	BENDING STRENGTH	INTERNAL BOND	HDT
<a href="#">Acrylic</a>	Clear	1.19 Kg/m3	0.3%	76 MPa	5%	13 kJ M <sup>2</sup>	110 MPa	110 MPa	> 102°C (A)
	Non-Translucent	1.19 Kg/m3	0.2%	75 MPa	4%	12 kJ M <sup>2</sup>	116 MPa	12 kJ M <sup>2</sup>	
<a href="#">Plywood</a>	The technical properties of Plywood highly depend on the project, please contact our sales office to consult your project.								
<a href="#">MDF</a>	Natural	min. 780 / max. 850 Kg/m3	min. 15% / max. 17%	min. 22 MPa max. 23 MPa	-	-	min. 23 / max. 22 MPa	min. 0.60 / max. 0.65 MPa	-
	Colored	850 kg/m3 (+/- 30 kg/m3)	12%	42 MPa	-	-	42 MPa	0.8 MPa	-
<a href="#">Cardboard</a>									
<a href="#">POM</a>	-	1.38 to 1.44 Kg/m3	0.10 to 0.79%	34 to 66 MPa	1.2 to 71 %	16 to 120 ft·lb/in <sup>2</sup>	-	-	139 to 160 °C

All Laser Cutting materials available at [sculpteo.com](http://sculpteo.com)