

LASER CUTTING MATERIALS COMPARISON - Design Guidelines



A brand of BASF - We create chemistry

MATERIAL	THICKNESS	KERF	MINIMUM DISTANCE BETWEEN CUTTING LINES	MINIMUM DIMENSIONS	MAXIMUM DIMENSIONS	ASSEMBLY	MINIMUM SPACE REQUIRED FOR ASSEMBLY	FILES WITH MULTIPLE OBJECTS
Acrylic	1mm	0.07mm (0.12mm: clear)	1mm	15 x 15mm	940 x 590mm	Yes	Depends on the kerf	Yes
	3mm	0.105mm	3mm					
	5mm	0.17mm	5mm					
	8mm	0.2mm	8mm					
	10mm	0.215mm	10mm					
Plywood	2mm	0.2mm (Ceiba Wood)	2mm	15 x 15mm	940 x 590mm (Oukoumé & Poplar) 800 x 585mm (Ceiba Wood)	Yes	Depends on the kerf	No
	3mm	0.125mm (Poplar) 0.115mm (Oukoumé)	3mm					
	5mm	0.135mm (Poplar) 0.125mm (Oukoumé)	5mm					
MDF	2mm	0.2mm	2mm	15 x 15mm	940 x 590mm	Yes	Depends on the kerf	No
	3mm	0.08mm	3mm					
	6mm	0.145mm	6mm					
	8mm	0.19mm	8mm					
	10mm	0.205mm	10mm					
Cardboard	0.7mm	0.075mm	1mm	15 x 15mm	780 x 580mm (Cellulose & Grey) 940 x 565mm (Corrugated)	Yes	Depends on the kerf	No
	1mm		1mm					
	2mm		2mm					
	2.8mm		3mm					
	6.7mm		7mm					
POM	2mm	0.07mm	2mm	15 x 15mm	940 x 590mm	Yes	Depends on the kerf	No
	3mm	0.12mm	3mm					
	5mm	0.105mm	5mm					

All Laser Cutting materials available at sculpteo.com