

Digital Fabrication Lab - Laser Cutter Materials List

ALL MATERIALS MUST BE FLAT AND FIT WITHIN 24 x 36" MAXIMUM BED SIZE.

Please email staff if you have any additional questions regarding materials.

Approved

Material		MAX Thickness for Cutting
Plastic	Acrylic/Plexiglass	3/8"
	PETG plastic*	1/16"
	Coroplastic/Corrugated Plastic**	5/32" (standard)
	Duralar/Mylar Plastic (transparency sheet)	N/A
Paper	Chipboard	Double ply
	Paper/Cardstock	N/A
	Posterboard/Museumboard/Matboard	Double ply
	Cardboard**	5/32" (standard)
Wood	MDF***	1/4"
	Plywood (3-layer ply and under ONLY)***	1/4"
	Sandply (3-layer ply and under ONLY)***	1/4"
	Balsa Wood	1/8"
	Basswood	3/32"
	Pressboard/Masonite	1/8"

*PETG is a thermoplastic and not optimal for laser cutting, the edges may slightly warp or melt

**Results may vary due to middle corrugated fluting

***Material difficult to cut and results may vary based on density of material, wood type, and glue

Banned

Material	Examples
Metal	Sheet metal, galvanized metal
Mirrored surfaces*	Mirrored papers, acrylics
Polystyrene foam	Foamboard, Styrofoam (ex: white, pink, blue)
Polycarbonate (looks like acrylic/plexiglass)	Lexan
ABS	Thermoplastic, 3D-print filament
HDPE	Milk bottle plastic
PVC	Plastic, vinyl, pleather, Sintra, Kydex
Fiberglass	Circuit boards, resin, textiles, glass, Kevlar
Epoxy	Cast or coated polymer
Pressure-treated wood	Wood with added chemical preservatives

*Some mirrored materials can be placed reflective-side DOWN and cut