

## Laser Cutter Approved and Banned Materials List

- All materials must be flat and must not exceed the maximum bed size of the machine.
- Only one sheet of material may be cut at a time (multiple sheets may not be stacked).
- Only approved materials are permitted inside of the laser cutters.

### Approved

Material		Max Thickness for Cutting
<b>Plastic</b>	Acrylic/Plexiglass	3/8"
	Duralar/Mylar Plastic (transparency sheet)	N/A
	PETG Plastic*	1/16"
	Coroplast/Corrugated Plastic**	5/32" (standard)
<b>Paper</b>	Chipboard	30-ply (double-thick)
	Paper/Cardstock	N/A
	Posterboard/Museumboard/Matboard	30-ply (double-thick)
	Cardboard**	5/32" (standard)
<b>Wood</b>	Balsa Wood	3/32"
	Basswood	3/32"
	Pressboard/Masonite	1/8"
	MDF***	1/4"
	Sandply***	1/4"
	Plywood***	1/4"

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

\*\*Results may vary due to middle corrugated fluting

\*\*\*Material very difficult to cut and success 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 w/ added chemical preservatives

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