

# Laser Cutter Permitted Materials

Aluminum - Anodized	Laser Rubber	Paper & Cardstock
Aluminum - Markable	Laser Tile	Plastic - Acrylic
Cardboard	Leather	Plastic—Polypropylene
Cork Board	Marble	Plywood
Fabric - Cotton	Mat Board	Powder Coated Metal
Fabric - Denim	MDF	Saltillo Tile
Fabric—Felt	Metal - Painted	Silicone Rubber
Glass—Lead Crystal	Mother of Pearl	Stone
Glass—Soda-Lime	Mylar	Tackle Twill
Glazed Tile	Natural Woods	Tool Foam
Granite	Nylon	Vellum

## Permission Needed

**Reflective Surfaces (mirrors, polished metals etc.)** - The laser will bounce off mirrors and exit the machine. This could potentially cause major damage to the user. Laser cutting the back side (non reflective side) of a mirror may be possible, but ask for help before attempting to laser cut anything with a reflective surface.

## Banned!

**ABS** - Emits cyanide gas.

**“Bending” Plywood** - Can break the lens.

**Casting Wax** - Melts.

**Corian** - Creates gritty fine dust that breaks equipment.

**Delrin** - Emits Benzene (causes cancer).

**Fiberglass** - Contains Resins (burns and blackens surfaces).

**Foamcore (polystyrene)** - Emits styrene fumes (known to cause cancer).

**Food** - Messy and smells bad. Don't do it.

**FR4 Boards** - Contains Resins (burns and blackens surfaces).

**Highly Reflective** - Bounces laser ruining it. Can cause harm to user and surroundings.

**Lexan** - Ruins laser and corrodes machine.

**Moleskin** - May have chlorine and emit gas.

**Nylon** - Emits toxic fumes.

**PETG, PET**- Emits Benzene (causes cancer).

**Polycarbonate (PC)** - Emits black & yellow gas that will make you sick.

**Polystyrene**— Emits styrene fumes (known to cause cancer).

**PVC** - Emits chlorine gas.

**Tropical Hardwoods** - Tropical woods likely to contain toxins.

**Vinyl** - Emits chlorine gas.