

## Approved materials are (not limited to):

- Wood (untreated - do not laser cut, etch, or engrave into weather treated wood)
- [MDF](#) (be careful of what it is sealed with. Polyurethane is acceptable)
- [Melamine](#)
- [Plywood](#)
- [Masonite/ Hardboard](#)
- [Cork](#)
- [Cardboard](#)
- [ChipBoard](#)
- [Corrugated cardboard](#)
- [Scratchboard](#)
- [Sand Paper](#)
- [Bristol](#)
- [Cotton Fabric](#) (Check for others)
- Genuine Leather (**do not use Faux Leather - MAJOR HAZARD**)
- [Acrylic](#) (must be acrylic - do not laser cut, etch, or engrave into LEXAN or Polycarbonate)
- [Portland Cement](#) (ask about others)
- Ceramic
- [Plaster No.1](#)
- Glass
- Marble
- [Neoprene](#) Neoprene (polychloroprene) is a synthetic rubber that is resistant to water, oil, and heat, making it a good insulator. It's commonly used to make wetsuits, but you can also get this fabric at your local craft store to make DIY phone cases, mouse pads, and even winter coats!
- [Natural Rubber Stamps](#)
- Vellum 100% Cotton Worbla
- (Natural Only)
- [Polyethylene Foam](#)
- [Polyester Foam](#)
- Anodized Aluminum (do not use bare aluminum or metal)



Masonite



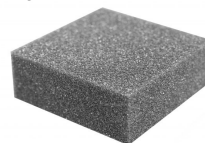
Melamine



Polyethylene Foam

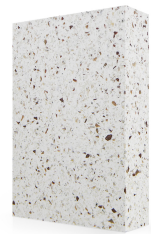
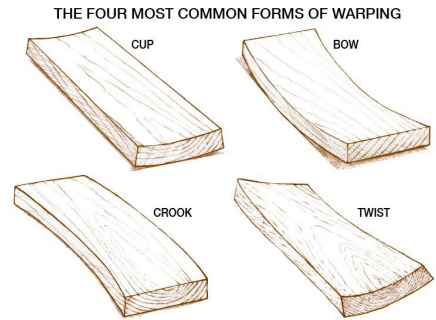


Polyester Foam



## Banned materials are (not limited to):

- [ABS](#) - produces **Hydrogen Cyanide**
- [3form Varia](#) - **melts too much** during cutting
- [Acetate](#) - creates **nauseating odors**
- [Acrylic Paint](#) - produces **Formaldehyde**
- [Bamboo](#) (resin impregnated) - produces **Formaldehyde**
- Bending or warped plywood - can be an **obstacle for the laser**
- [Casting Wax](#) - **melts too much** during cutting
- [Corian](#) - creates a fine grit in the laser bed that **damages the machine**
- [Delrin](#) - produces **Formaldehyde, Hydrogen Fluoride**
- [Polyurethane foam](#) - produces **Isocyanates, Hydrogen Cyanide**
- [Foamcore](#) - produces **Benzene** (FOAMCORE is expanded polystyrene)
- [Formica](#) - produces **Formaldehyde**
- [Mylar](#) (PET) - produces **Ammonia, Hydrogen Cyanide**
- [MDF](#) - produces **Formaldehyde**
- [Nylon](#) - produces **Ammonia, Hydrogen Cyanide**
- [PETG](#) - - creates **nauseating odors**
- [Polycarbonate/Lexan](#) - produces **CHLORINE GAS**
- [Polyester Felt](#) - produces **Benzene and strong odors**
- [Polystyrene /Styrene](#) - creates **nauseating odors, generates a lot of smoke, and deposits melted plastic inside the laser bed**
- [PVC](#) - produces **CHLORINE GAS**
  - **Commonly found in placemats, wallets, carrying cases, notebooks, etc.**
- [Tyvek](#) - produces **Formaldehyde** (Tyvek is polyethylene, which is known to contain formaldehyde)
- [Vinyl](#) - produces **Hydrogen Cyanide**
  - **Commonly found in placemats, wallets, carrying cases, notebooks, etc.**
- [Faux leather](#) - produces **Hydrogen Cyanide**
  - **Other names:**
    - **PU Leather (polyurethane)**
    - **Bicast leather**
    - **Split leather**
    - **Bonded leather**
    - **Reconstituted leather**
    - **Corrected grain leather**



Corian or Avonite

