

# E4 LASER LAB MATERIALS



This is a guide for the materials that are permitted in the laser lab. In general, most organic materials are allowed as they do not off-gas when they burn, as opposed to synthetic materials which often release harmful fumes when burnt. While we have presets for some of these materials, we recommend that students bring extra material for testing and adjusting settings if necessary. If your material is not listed, feel free to [email us](#) about it!

## APPROVED (mostly organic)

### Wood (max cut thickness 3/16")

Hardwood (Cherry, Maple, Walnut)  
Medium Wood (Alder, Birch)  
Soft Wood ( Balsa, Bass, Pine)  
Craft plywood

\*all wood types can be etched

### Plastics (max cut thickness 1/4")

Cast Acrylic (check [Canal Plastics](#))

\*mirrored/glitter acrylic is banned

Blick brand "plexi" is also banned

### Paper

Regular paper  
Heavy Weight Paper  
Card stock Paper  
Bristol  
Printing Paper  
Vellum

### Other

Stamp Rubber  
Stamp Linoleum  
Soy Foam  
Painter's/masking tape

### Fabric & Leather (natural only)

Wool  
Cotton  
Felt  
Silk  
Leather  
Suede  
Denim  
Muslin  
Canvas

### Board (Max thickness 3/16")

Chipboard  
Corkboard  
Museum board  
Butter board  
Illustration Board  
Bristol  
Mat Board  
Masonite  
Oil Board  
Cardboard



## BANNED (mostly synthetic)

Metal (etch only)

Stone (etch only)

Glass

Fiber Glass

Carbon Fiber

Foam (all types)

Foam Core

Lighting Gels

Mylar Film/Sheets

Rubber (non stamp)

Vinyl

Neoprene

Mirrored Acrylic

Duct Tape

Linoleum (flooring/tiles)

M.D.F.

Resin

Formaldehyde/Chlorine

### PLASTICS

Polycarbonate

Polyester

Polyesterene

Polypropylene

PVC

### SYNTHETIC FABRICS

Synthetic leather  
Nylon  
Rayon  
Polyester  
Spandex / Lycra



**DISCLAIMER: For health and safety reasons, The Laser Lab reserves the right to stop a cut at any time if the technician on duty feels that the fumes emitted by the material may potentially be hazardous - regardless if the material is approved or not.**

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