

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 most 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 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 thickness 1/4")

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

*mirrored/glitter acrylic is 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 (non acrylic):

Polycarbonate
Polyester
Polystyrene
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.