



Material Policy

Materials Allowed for use in the Laser Cutters:

- Paper Products:
 - Chipboard
 - Cardboard
 - Matte and Museum board
 - Poster board and Cardstocks
 - MDF
 - Masonite
- Plastics:
 - Acrylic
 - Plexiglass
 - Lucite
- Woods:
 - Basswood
 - Balsawood
 - Plywood
 - Maple
 - Cherry
 - Poplar
 - Walnut
 - Oak
 - Birch

➤ *Any material that is not on the list of accepted material may be approved by the lab manager after appropriate testing. Contact the lab to set up an appointment with the manager and bring a sample piece of material to be tested.*

Materials *NOT* Allowed for use in the Laser Cutters:

- Polycarbonates (Lexan, Mylar, Acetate)
- Soft woods and woods with high resin content (Pine, Cedar, Spruce)
- ABS plastic
- Vinyl – PVC and PCV
- Fiberglass
- Polyester

➤ *The above materials are strictly prohibited and are hazardous to the technician's health and the equipment. Anyone knowingly using these materials in the laser cutters will lose lab access and held liable for any damage caused to the equipment.*



Material Policy (continued)

- *All materials are subject to variation in their physical composition. As such, there may be variations in how the laser is able to cut, score, or engrave them. Some areas of a single piece of material may not cut all the way through due to inconsistencies in the material.*
- *Any material that is severely warped will not be accepted by the lab. Cutting warped material can be damaging to the lasers and will produce an imperfect result. Anything more than a 1/8" deformation will not be accepted.*
- *After a piece of material has been cut, any leftover material may be saved or thrown out. If any or all excess material is to be saved, that must be indicated on the Job Request Form. If it is not specified, it will be left to the Lab Tech's discretion to save or trash excess material.*
- *It is very common for small light weight pieces to shift around inside the machine during a cut and sometimes be sucked up into the exhaust system. Extremely small pieces of cut material may also be lost by falling through the honeycomb bed. Any material lost in these situations is unrecoverable and should be considered as a possibility before submitting any job request.*
- *If your material isn't 24"x48" or 18"x24" include your material size in a white boarder. You MUST allow a ¼" space around the edge of your material so that it will all fit on the laser. We will not cut edge to edge.*

Limits on Material Quantity:

- The lab will not accept more than **12 individual sheets** of any material per person, per day.
- Material greater than or equal to ¼" in thickness is limited to a **maximum of 4 sheets** per person, per day.



Color Charts

ALL MATERIALS		
<i>Score (light)</i>	<i>Score (dark)</i>	<i>Engrave</i>
CYAN	MAGENTA	ORANGE

PAPER PRODUCTS		
<i>Material</i>	<i>Thickness</i>	<i>Cut Color</i>
CHIPBOARD	1/32"	RED
CHIPBOARD	1/16"	GREEN
CHIPBOARD	1/8"	YELLOW
CARDBOARD	1/16"	RED
CARDBOARD	1/8"	GREEN
CARDBOARD	1/4" (5/16")	YELLOW
MUSEUMBOARD	1/32"	RED
MUSEUMBOARD	1/16"	GREEN
PAPER (TEXT WEIGHT)	---	RED
PAPER (CARDSTOCK)	---	GREEN



Color Charts (continued)

WOODS		
<i>Material</i>	<i>Thickness</i>	<i>Cut Color</i>
PLYWOOD	1/16"	RED
PLYWOOD	1/8"	GREEN
PLYWOOD	1/4"	YELLOW
BASSWOOD	1/32"	RED
BASSWOOD	1/16"	GREEN
BASSWOOD	1/8"	YELLOW
BASSWOOD	1/4"	BLUE
1/8" MASONITE	1/8"	RED
MDF	1/4"	GREEN
MDF	3/8"	YELLOW
MDF	1/2"	BLUE
HARDWOODS	1/32"	RED
HARDWOODS	1/16"	GREEN
HARDWOODS	1/8"	YELLOW
HARDWOODS	1/4"	BLUE



Color Charts (continued)

ACRYLIC / PLASTICS		
<i>Material</i>	<i>Thickness</i>	<i>Cut Color</i>
PETG-Durlar / ACRYLIC	1/32"	RED
ACRYLIC / PLASTIC	1/16"	GREEN
ACRYLIC	1/8"	RED
ACRYLIC	3/16"	GREEN
ACRYLIC	1/4"	YELLOW
ACRYLIC	3/8"	BLUE