

MATERIAL USAGE

Table 1 Dremel LC40 Laser Cutter Commonly Used Materials**

Acrylic [†]	Denim fabric	Mat board
Aluminum, anodized	Felt (wool)	Oak, solid
Plywood** [†]	Glass	Paper
Cork	Leather, vegetable tanned	Rubber, laser grade
Cardboard	Maple, solid	Walnut, solid
Cotton fabric		

* Must be California 93120 Phase 2 & TSCA Title VI compliant for formaldehyde

[†]Birch and walnut Plywood and Acrylic are available from Dremel.

**When using materials other than those commonly used, ask the manufacturer for the SDS (Safety Data Sheet) for each material.

Table 2 Dremel LC40 Laser Cutter Prohibited Materials

ABS	Painted material, varnished materials
Beryllium oxide	Particleboard, paneling
Carbon	Polycarbonate
Chlorinated plastics	Polychloroprene (CR or chloroprene rubber, marketed under the brand name of Neoprene)
Coated carbon fiber	Polypropylene foam, Polypropylene sheet
Coated materials	
Epoxy based or phenolic resins	
Fiberglass	
Fluorine based plastics: PTFE (Teflon) Fluorinated ethylene propylene (FEP)	Polystyrene foam Polyurethane, Polyurethane foam
Galvanized metal	
HDPE (High Density Poly Ethylene)	Polyvinyl chloride (PVC) Found in many common products such as but not limited to; flooring, siding, piping, roofing membranes, credit cards, toys, flexible tubing.
Leather, Artificial or Chrome tanned leather	
Materials containing: • Astanine • Bromine • Chlorine • Fluorine • Formaldehyde (excluding plywood listed in Table 1) • Flame-retardants • Halogens • Iodine	POM Delrin/acetyl Rubber Styrofoam
Mirrored surfaces	Wood that has been: • Coated • Fumigated • Pressure treated • Stained
Nylon	

While the Dremel LC40 Laser Cutter can cut and etch a variety of materials, some materials such as most metals, cannot be marked and will give less than desirable results. Other materials may not have acceptable finish quality.