

# Prohibited Materials



The following materials cannot be used in the laser under any circumstances. **List is not exhaustive.**

MATERIAL	CONSEQUENCE
PVC	Emits chlorine gas. Ruins the optics of the laser, causes the metal to corrode, and ruins the motion control system.
Polycarbonate	Catches fire easily. Cuts poorly.
ABS	Emits cyanide gas. Melts.
High-Density Polyethylene (HDPE)/ Milk bottle plastic	Catches fire easily. Melts.
Polystyrene foam	Catches fire easily. Melts.
Polypropylene foam	Catches fire easily. Melts.
Fiberglass	Emits fumes. Cuts poorly.
Bare metal	No effect when etched. Cannot be cut.
Pressure-treated wood	Contains chemical preservatives that may emit fumes.
Bamboo	Contains high glue content that may emit fumes.
Chrome- tanned leather	Emits toxic chemicals.