

FiberGrave™

Plastic Sheet Engineered for Fiber Marking



Product Description

FiberGrave™, is a light-weight, single-ply acrylic sheet plastic that has been specially engineered to make contrasting marks with a Fiber or YAG laser. Compared to traditional injection molded plastics, FiberGrave is a cost-effective larger format solution for Fiber/YAG laser marking applications. FiberGrave can also be vector cut with standard CO2 lasers to easily create custom shapes for specialty tags and labels.

FiberGrave produces permanent, highly detailed etchings, including variable tone images that are barcode and data matrix readable. It's easier to handle and fabricate compared to aluminum or stainless steel sheet stock, and is UV-stable for exterior applications such as industrial tags, labels, and identification plates.

Properties

	Typical Values	ASTM Method
IZOD Impant Strength		
Notched at 73°F (22.78°C)	1.10ft lbs/in	D-256
Tensile Strength		
To break	5,500psi	D-638
Elongation before break	50%	D-638
Flexural Strength		
Load to stretch outer surface 5%	10,300psi	C-790
Specific Gravity		
	1.15	D-792
Rockwell Hardness		
	M45	D-785
Deflection Temperature		
Temperature at which material deflects .010" (.254mm) at 264psi	175°F (79.44°C)	D-648
Coefficient of Thermal Expansion		
Inch/Inch/°F	5.6 x 10-5	D-696
Vicat Softening Point		
Temperature for needle to penetrate 1mm (90°F/hr, 2.2 lbs)	208°F (97.78°C)	D-1525
Temperature for needle to penetrate 1mm (90°F/hr, 11.0 lbs)	187°F (86.11°C)	D-1525

Technical Information

Color: White & Black

Material: Single-ply modified Acrylic

Finish: Matte

Sheet Size: 24 1/8" x 48 3/4" // 613mm x 1238 mm

Custom sizes and cut blanks available

Gauge: .020" & .040"

Engraving Depth: 0.0mm (surface ablation)

Usage

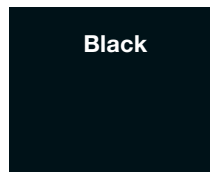
- Tags
- Name plates
- Identifiers
- RFID Tags
- Traceability
- Utility markers
- Livestock tagging
- Signage
- Control Panels

Capabilities

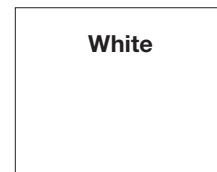
- Marking on the fly
- Fiber laser contrasting mark
- Multi-shade Fiber laser marking
- CO2 vector cut
- Fine detail
- Heat bendable/formable
- Saws
- Shears
- Drills
- Bevels
- Bonds
- Scores
- UV-Stable

Processing Parameters

Available at rowmark.com

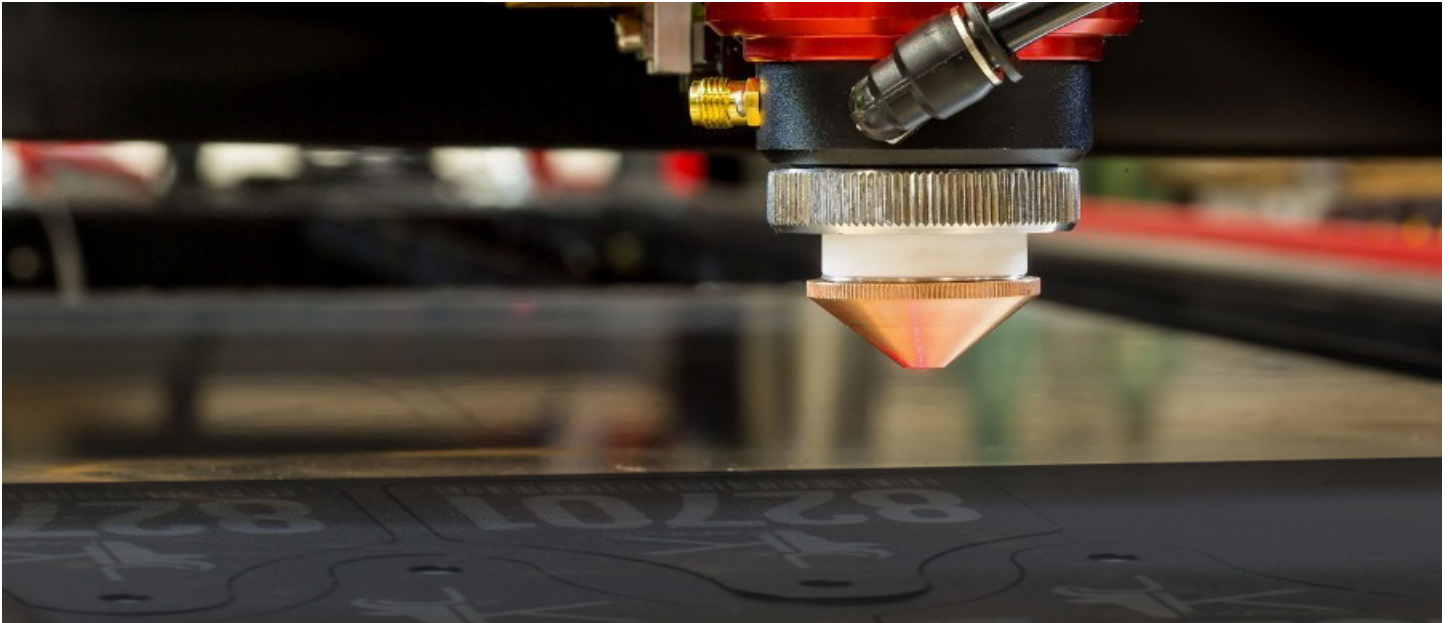


Black
FX301-401 1-ply .020"
FX391-401 1-ply .040"



White
FX301-201 1-ply .020"
FX391-201 1-ply .040"

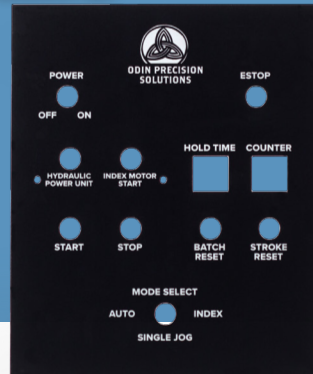
Product Overview



Military



Industrial



Aerospace



Livestock Tagging



Manufacturing

