

Material Information Sheet

Material Description: FiberGrave



Specifications	
Material:	Single-ply Impact Modified Acrylic
Finish:	Matte Non-Glare
Sheet Size:	24"x 48 3/4" (610 x 1238 mm)
Thickness: Single Ply	1/32" (.79mm) 1/16" (1.6mm) 1/8" (3.2mm)
Usage:	Interior, Exterior & Tactile Signage
Engraving Method:	Laser Rotating carbide

Physical Properties	Typical Values	ASTM Method
IZOD Impact Strength		
Notched at 73°F (22.78°C)	1.10ft lbs/in	D-256
Tensile Strength		
To break	5,500 psi	D-638
Elongation before break	50%	D-638
Flexural Strength		
Load to stretch outer surface 5%	10,300 psi	D-790
Electrical – Arc Resistance	10 ¹² Ohms/Sq. Meter	D-495
Rockwell Hardness	M45	D-785
Specific Gravity	1.15	D-792
Deflection Temperature		
Temperature at which material deflects .010" (.254mm) at 264 psi	180°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

FiberGrave® material softens sufficiently at approx. 180°F (82.22°C), which enables bending, should that be desired. It can also be drilled, sawed, sheared, and bonded to itself or other materials. Rowmark uses UV stable plastic resins and films in the manufacture of its products to prolong the useful life of the material when used in reasonable exterior conditions.

Electrically non-conductive, Insulative. Meets 10¹² Ohms/square meter or higher in electrical resistivity, RoHS compliant (halogen-free), PVC-free, Formaldehyde and Phenol free. Flammability rating is UL 94 HB and results deem no contribution to the combustion of the base material.

Terms & Condition of Sale

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