

Material Information Sheet

Material Description: LaserGlow®

Specifications	
Material:	Impact Modified Acrylic
Finish:	Matte Non-Glare
Sheet Size:	24"x 48" (610 x 1219 mm)
Thickness: 2-Ply	1/32" .020" .050" 1/8"
Usage:	Interior, Exterior Signage Tactile Signage Exit – Safety Signage
Engraving Method:	Rotating carbide & Laser Vector Cutting

Physical Properties	Typical Values	ASTM Method
<u>IZOD Impact Strength</u>		
Notched at 73°F (22.78°C)	1.10ft lbs/in	D-256
<u>Tensile Strength</u>		
To break	5,500 psi	D-638
Elongation before break	50%	D-638
<u>Flexural Strength</u>		
Load to stretch outer surface 5%	10,300 psi	D-790
<u>Electrical – Arc Resistance</u>	10 ¹² Ohms/Sq. Meter	D-495
<u>Rockwell Hardness</u>	M45	D-785
<u>Specific Gravity</u>	1.15	D-792
<u>Deflection Temperature</u>		
Temperature at which material deflects .010" (.254mm) at 264 psi	180°F (79.44°C)	D-648
<u>Coefficient of Thermal Expansion</u>		
Inch/inch/°F	5.6 x 10 ⁻⁵	D-696
<u>Vicat Softening Point</u>		
Temperature for needle to penetrate 1mm (90°F/hr, 2.2 lbs)	208°F (97.78°C)	D-1525

LaserGlow® 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 as such, Rowmark products will remain colorfast for 2+ years.

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 rated UL 94 HB. Material was judged as not contributing to the combustion of the base material.

UltraGlow® material was independently tested and rated in compliance with UL 1994-2015 Ed. 4, Clauses 33 & 34 Standard for Safety for Luminous Egress Path Marking Systems for Low Level Path Markers.

Terms & Condition of Sale

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