

Material Information Sheet

Material Description: UltraMattes Reverse Engraveable



Specifications	
Material:	Impact Modified Acrylic
Finish:	Matte
Sheet Size:	24"x 48 3/4" (610 x 1238 mm)
Thickness: 2-Ply and 3-Ply	1/32" (.79mm) 1/16" (1.6mm) 1/8" (3.2mm)
Usage:	Interior, Exterior Signage Legend Plates Clean Room Compliant
Engraving Method:	Rotating carbide for Reverse engraving

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

UltraMattes Reverse 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, clean room compliant and rated UL 94 HB. Material was judged as not contributing to the combustion of the base material.

Terms & Condition of Sale

Rowmark warranty is limited to replacement of product only, and such warranty does not extend to the costs of any repeat labor or incidental costs. *LIMITED WARRANTY, WARRANTY DISCLAIMERS AND LIMITATIONS OF REMEDIES AND LIABILITIES:* Except as set forth above, Seller makes *NO OTHER WARRANTIES* concerning the products whatsoever.

Note: The above information is given in good faith, but no warranty, express or implied, is given.