

Material Information Sheet



Material Description: UltraMattes

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

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

UltraMattes 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.

Restriction of Hazardous Substances (RoHS)/ U.L. Certification/Halogenated Materials Rowmark has investigated the Restriction of Hazardous Substances (RoHS 3) directive issued by the European Union (directive 2015/863/EU), through our on-line research. This RoHS directive prohibits the distribution of products after June 2015, which contain the following materials; lead, mercury, cadmium, hexavalent chromium, poly-brominated biphenyls and poly-brominated diphenyl ethers. The directive appears to apply to all products that operate on electrical power and contain electronic components. Rowmark complies with the use and disclosure of all halogenated materials and does not incorporate poly-brominated biphenyls or poly-brominated diphenyl ethers in any of its products. Based on our audit, Rowmark plastic sheet products are in compliance with this directive and do not contain any of the elements noted above or in the candidate list in accordance with the referenced directive. Our related MSDS documents may be found in the Rowmark website (<http://www.rowmark.com/MARK/MSDS.asp>) and can be referenced for further information.

Terms & Condition of Sale

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