

Material Information Sheet

Material Description: PrintMark

Specifications	
Material:	Micro-surfaced Impact Modified Acrylic
Finish:	Matte
Sheet Size:	24"x 48 ¾" (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:	Laser or Rotating carbide

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

PrintMark 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 conditions as such, Rowmark UV stable materials are warranted for colorfastness 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.

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