

Material Information Sheet

Material Description: Safe T Mark

Specifications		
Material:	Film-stamped Flame Retardant Modified ABS	
Finish:	Matte / Non-glare	
Sheet Size:	24"x 49" (610 x 1245mm)	
Thickness: 2-Ply and 3-Ply	1/16" (1.6mm) 1/8" (3.2mm)	
Usage:	Fabrication –friendly alternative to traditional phenolic materials for interior applications including electrical tags and control panels.	
Engraving Method:	Rotating carbide	
Cutting Depth:	.003" (.08mm)	

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			
Loan 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	
<u>Deflection Temperature</u>			
Temperature at which material deflects .010" (.254mm) at 264 psi	175°F (79.44°C)	D-648	
Coefficient of Thermal Expansion			
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	

Safe T Mark material softens sufficiently at about 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.

Electrically non-conductive, Insulative, Fire retardant, Non-flammable. Meets 10^12 Ohms/square meter or higher in electrical resistivity, RoHS compliant (halogen-free), PVC-free, Formaldehyde and Phenol free and UL 94 V0. 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.

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