

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
<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	175°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
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 10¹² 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.

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