



PHYSICAL PROPERTIES OF PLASTIC ENGRAVED Valve and P&ID Tags

Physical Properties	Typical Values	ASTM Method
<u>IZOD Impact Strength</u>		
Notched at 73°F (22.78°C)	1.10 ft 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>Specific Gravity</u>	1.15	D-792
<u>Rockwell Hardness</u>	M45	D-785
<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
Temperature for needle to penetrate 1mm (90°F/hr, 11.0	187°F (86.11°C)	D-1525

The base material was tested for flammability by Underwriters Laboratories.

The material is rated 94 HB on the UL 94 test.

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