

**Physical Properties**

**Value Series Satins Physical Properties**



Physical Properties	Typical Values	ASTM Method
<b><u>IZOD Impact Strength</u></b>		
Notched at 73°F (22.78°C)	2 ft lbs/in	D-256
Notched at 32°F (0°C)	1.6 ft lbs/in	D-256
Unnotched at 73°F (22.76°C)	24 ft lbs/in	D-256
<b><u>Tensile Strength</u></b>		
To break	7,000 psi	D-638
Elongation before break	28%	D-638
<b><u>Flexural Strength</u></b>		
Load to stretch outer surface 5%	11,000 psi	D-790
<b><u>Specific Gravity</u></b>		
	1.11	D-792
<b><u>Rockwell Hardness</u></b>		
	R114	D-785
<b><u>Deflection Temperature</u></b>		
Temperature at which material deflects .010" (.254mm) at 264 psi	186°F (85.55°C)	D-648
<b><u>Coefficient of Thermal Expansion</u></b>		
Inch/inch/°F	5.0 x 10 <sup>-5</sup>	D-696
<b><u>Vicat Softening Point</u></b>		
Temperature for needle to penetrate 1mm (90°F/hr, 2.2 lbs)	217°F (102.78°C)	D-1525

The plastic material used in the manufacture of the **VALUE SERIES SATINS** was specifically selected and formulated to achieve the best balance of properties needed for the engraving industry.

The material softens sufficiently at about 200 °F, which enables bending, should that be desired. It can also be



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drilled, sawed, sheared, nailed and bonded to itself or other materials.

Most of the colors will exhibit slight fading under prolonged exposure to direct sunlight. There are, however, those which tend to fade more severely. This material is designed for use where no direct extreme exposure is encountered.

The base and cap material were tested for flammability by Underwriters Laboratories. They are rated at 94HB on the UL 94 test.

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