

Physical Properties

Lacquers Physical Properties
Lacquers™

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 lbs)	187°F (86.11°C)	D-1525

LACQUERS engraving material softens at about 200°F (93.33°C) sufficiently so that it can be bent as needed. It can be sawed, drilled and bonded, but not sheared. For best appearance, sawed edges should be buffed on material 1/8" (3.0mm) and thicker.

The base and cap materials were tested for flammability by Underwriters Laboratories.



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The base and cap materials are rated 94 HB on the UL 94 test. The foil was judged as not contributing to the combustion of the base material.

Under the ASTM Standard G-155, Laquers material was tested with a Xenon Arc Light Apparatus under specific, reproducible conditions. Testing resulted in no noticeable change in color after 300 hours of exposure to the Xenon Arc. Exposure to the Xenon Arc for 300 hours is supposedly the equivalent of approximately 3 years of exposure in a normal, mild climate, such as the Midwestern States of the United States.

This is not intended as a statement of warranty, rather a statement of general comparison.

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