

Material Properties

ENGRAVABLE PLASTICS

Material Name: Exterior Series: .005 Advantage

Properties:	Typical Values	ASTM Method
Tensile Strength:		
To break:	5,500 psi	D-638
Elongation before break:	50%	D-638
Flexural Strength:		
Load to stretch outer surface 5%	10,300 psi	D-790
Gravity:	1.15	D-792
Rockwell Hardness:	M45	D-785
IZOD Impact Strength:		
Notched at 73°F (22.777°C)	1.10 ft lbs/in .7 ft lbs/in	D-256
Deflection Temperature		
Temperature at which material deflects .010" (.254mm) at 264 psi	175°F (79.44°C)	D-648
Coefficient of Thermal Expansion		
Inch/inch/°F	5.6x 10 ⁻⁵	D-696

Exterior Series - .005 Advantage: 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. The base and cap materials are rated 94 HB on the UL 94 test.

Under the ASTM Standard G-155, Exterior Series 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.



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