

Material Properties

ENGRAVABLE PLASTICS

Material Name: AdA

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	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	5.6 x 10 ⁻⁵	D-696

AdA material softens sufficiently at about 200°F (93.33°C), which enables bending, should that be desired. It can also be drilled, sawed, sheared, nailed and bonded to itself or other materials.

The material was tested for flammability by Underwriters Laboratories. The materials are rated 94 HB on the UL 94 test. The material was judged as not contributing to the combustion of the base material. Under the ASTM Standard G-155, ADA engraving 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.



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