

**Physical Properties**

***FlexiBrass and FlexiColor Physical Properties***

FlexiBrass® & FlexiColor®

| Physical Properties  | Typical Values         | ASTM Method |
|--|------------------------|-------------|
| <b><u>IZOD Impact Strength</u></b>                               |                        |             |
| Notched at 73°F (22.78°C)  | 1.10 ft lbs/in         | D-256       |
| <b><u>Tensile Strength</u></b>                                   |                        |             |
| To break   | 5,500 psi              | D-638       |
| Elongation before break  | 50%                    | D-638       |
| <b><u>Flexural Strength</u></b>                                  |                        |             |
| Load to stretch outer surface 5%                                 | 10,300 psi             | D-790       |
| <b><u>Specific Gravity</u></b>                                   |                        |             |
|  | 1.15                   | D-792       |
| <b><u>Rockwell Hardness</u></b>                                  |                        |             |
|  | M45                    | D-785       |
| <b><u>Deflection Temperature</u></b>                             |                        |             |
| Temperature at which material deflects .010" (.254mm) at 264 psi | 175°F (79.44°C)        | D-648       |
| <b><u>Coefficient of Thermal Expansion</u></b>                   |                        |             |
| Inch/inch/°F   | 5.6 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)       | 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      |

**FLEXIBRASS** and **FLEXICOLOR** engraving material softens at about 200°F (62.329°C) sufficiently so that it can be bent as needed. It can be sawed, drilled and bonded, but not sheared.

The base and cap materials, as well as the foils, were tested for flammability by Underwriters Laboratories.



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The base and cap materials, as well as the foils, were tested for flammability by Underwriters Laboratories. 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.

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