



# HI STRENGTH 84D

## Product Highlights:

- Non-Mercury Based Catalyst System
- High impact rigid material
- Odorless, translucent
- Excellent for hand, vacuum or pressure casting
- Low viscosity
- Exhibits high heat distortion temperature

## Product Description:

TC-854 A/B is a rigid 84 Shore D polyurethane system that exhibits exceptional physical properties. It is a high performance material that features high heat deflection capability and a low shrink factor. TC-854 is a highly translucent, colorless casting material that allows for unrestricted tinting and precise color matching. This product is ideal for producing intrinsically colored parts requiring a non-painted finish. This product can be easily processed for hand-cast, meter-mix-dispense, or vacuum cast applications.

## Physical Properties

Hardness, Shore D ASTM D 2240.....	84 ± 2
Density, (g/cc) ASTM D 792.....	1.20
Cubic Inches per Pound.....	24.5
Color/Appearance.....	Transparent light yellow
Tensile Strength, (psi) ASTM D 638.....	10,060
Tensile Modulus, (psi) ASTM D 638.....	3.3 x 10 <sup>5</sup>
Elongation, (%) ASTM D 638.....	10.5
Flexural Strength, (psi) ASTM D 790.....	13,700
Flexural Modulus, (psi) ASTM D 790.....	3.6 x 10 <sup>5</sup>
Shrinkage, (in./in.) linear 12" x 1/2" x 1/2".....	0.001
Izod Impact, notched (ft.-lb./in.) ASTM D 256.....	1.14
Heat Deflection Temperature (@ 66 psi) ASTM D 648.....	190° ± 5°F (88° ± 3°C)
(@ 264 psi) ASTM D 648.....	170° ± 5°F (77° ± 3°C)

(Note: Reported physical properties based on elevated temperature cured test specimens.)

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