



"Dedicated to QUALITY, SERVICE, SAFETY, and INNOVATION"

# RIGID FILLED & UNFILLED URETHANES

## TC-880 FR A/B

### RIGID 80 SHORE D URETHANE CASTING SYSTEM FIRE RETARDENT

**PRODUCT DESCRIPTION:**

TC-880 FR A/B produces a very high impact rigid 80 Shore D material that is commonly used to make large computer housings, models of all kinds, and artwork components. It provides a shorter working time which is 5 minutes, verses 15 minutes for TC881, and 30 minutes with the TC-882. The three systems produce the same physical properties after curing.

**PRODUCT USES:**

- Computer Housings
- Models of all kinds
- Artwork components
- Architectural models
- Gears, wheels, fans
- Transportation cases
- Levels, pedals
- Miniatures movie props parts
- Simulating injection molded pieces

**CURED PROPERTIES:**

Hardness, Shore D.....	80 ± 82
Specific Gravity (gm/cc)/Density part A.....	1.16
Specific Gravity (gm/cc)/Density part B.....	1.31
Specific Gravity (gm/cc)/Density mixed.....	1.25
Cu. in per pound.....	22.3
Color.....	White
Tensile Strength (pli) ASTM D 638-82.....	6,450
Tear Strength (pli).....	NA
Elongation (%) ASTM D 638-82.....	4.0%
Shrinkage (in./in.) ASTM D 2566-79.....	.003
Tensile Modulus.....	127, 500 PSI (ASTM D 638-82)

**HANDLING PROPERTIES:**

Mix Ratio:

- Resin Part A ..... 67 parts by Weight
- Curative Part B..... 100 parts by Weight

Viscosity, Centipoise (cps) @ 77° F:

- Mixed Viscosity..... 400 CPS
- Initial Mixed Viscosity (cps)..... 400 CPS

Color:

- Resin Part A..... Translucent yellow
- Curative Part B..... White

Work Life @ 75° F ..... 5 minutes

Demold Time..... 3-4 hours

Cure Schedule..... For ultimate heat distortion the material should be Post cured at 160° F for 6 hours. This gives an HDT Of 155° F.

