



RIGID FILLED & UNFILLED URETHANES

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

TC-871 A/B

72 SHORE D URETHANE CASTING SYSTEM

PRODUCT DESCRIPTION:

TC-871 A/B produces a high impact semi-rigid 70-75 Shore D material that is commonly used to make various cast parts, prototypes, models, and artwork components. The new TC-871 provides substantially high tensile and flexural strength, elongation, and impact resistance as well as heat sag resistance for a urethane product in this hardness.

TYPICAL PRODUCT USES

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

PHYSICAL PROPERTIES:

Hardness, Shore D.....	72 ± 2
Specific Gravity (g/mlcc) cured.....	1.09
Displacement (cu. in./lb).....	25.2
Color (un-pigmented).....	Light Cream
Tensile Strength, (psi) ASTM D-638.....	4,250
Elongation (%) ASTM D-638 (at Break).....	38
Flexural Strength, (psi) ASTM D- 790.....	5,600
Flexural Modulus, (psi) ASTM D-790.....	1.65 x 10 ⁵
Izod Impact (notched) flAb/in, ASTM D-256.....	1.40
Shrinkage (in.lin.) @ ambient temp., ASTM D-2566-79:	
(3/8" x 10" Bar).....	0.0015
(1" x 10" Bar).....	.0005
Heat Deflection Temperature, (66 psi) ASTM D-648.....	1650 F (740 C)

HANDLING PROPERTIES:

Mix ratio (by weight):	
Part A.....	100 parts by weight
Part B.....	100 parts by weight
Mix ratio (by volume):	
Part A.....	90 parts by volume
Part B.....	100 parts by volume
Specific Gravity (gm/cc) part A.....	1.18
Specific Gravity (gm/cc) part B.....	1.06
Mixed Viscosity (cps) @ 77° F (25° C).....	250
Color:	
Part A.....	Translucent yellow
Part B.....	Off white
Work Life @ 75° F (24° C).....	13-15 minutes
Demold Time.....	4-5 hours
Cure Schedule.....	3-5 days at 77° F (25° C), or see Heat Curing

