

TC-880 FR RIGID 80 SHORE D URETHANE CASTING SYSTEM FIRE RETARDANT

PRODUCT DESCRIPTION:

TC-880 FR produces a 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, versus 15 minutes for TC-881 FR, and 30 minutes for TC-882 FR. The three systems produce the same physical properties after curing.

PRODUCT HIGHLIGHTS:

- ✓ No odor
- ✓ UL 94 VO Flammability Rating at 0.125" thickness

PHYSICAL PROPERTIES:

Hardness, Shore D ASTM D-2240	80 ± 2
Density, (g/cc) ASTM D-792	1.25
Cubic Inches per Pound	22.3
Color/Appearance	White
Tensile Strength (psi) ASTM D-638	6,450
Tensile Modulus (psi) ASTM D-638	127, 500
Elongation (%) ASTM D-638	4.0
Shrinkage (in./in.) linear (12" x ½" x ½")	
Izod Impact, notched (ft. lb./in.) ASTM D-256	
Heat Deflection Temperature (@ 66 psi) ASTM D-648	
HANDLING PROPERTIES: Mix Petio (by proight):	
Mix Ratio (by weight):	67 manta hay ayai aht
Part APart B	
Mix Ratio (by volume):	100 parts by weight
Part A	75 parts by volume
Part B	
Specific Gravity:	100 parts by volume
Part A	1 10
Part B	
Viscosity (cps) @ 77°F (25°C) Brookfield:	1.30
Part A	200
Part B	
Part C	
Color:	400
Part A	Translucent vellow
Part B	•
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HANDLING PROPERTIES Cont'd:

Work Time @ 77°F (25° C)	.5 minutes
Demold Time @ 77°F (25°C)	.3-4 hours

CURE SCHEDULE/HEAT CURING:

Most of the physical properties can be achieved in 5-7 days at ambient temperature, 77°F (25°C). In order to achieve maximum physical properties, a post cure with heat is required. BJB recommends 24 hours at ambient temperature, 77°F (25°C), followed by 16 hours at 180°F (82°C). Support of the part may be required to prevent part deformation during heat cure.

VACUUM DEGASSING:

It is advisable whenever possible to evacuate entrapped air prior to casting this system. The use of a de-airing agent, such as BJB's AF-4, can speed the process. If help is required call BJB for assistance. For additional information on the use of this product, refer to BJB Guidelines for Handling Polyurethane Products.

STORAGE:

Store in a cool dry place. Unopened containers will have a shelf life of 6 months from date of shipment when properly stored at room temperatures. **Purge opened containers with dry nitrogen or an equivalent dry air purge before resealing.**

PACKAGING:

Gallon Kits	s. A,	8 lbs.	. В
5 Gallon Kits	. A, 4	10 lbs.	. В

SAFETY PRECAUTIONS:

Use in a well-ventilated area. Avoid contact with skin using protective gloves and protective clothing. Repeated or prolonged contact on the skin may cause an allergic reaction. Eye protection is extremely important. Always use approved safety glasses or goggles when handling this product.

IF CONTACT OCCURS:

Skin: Immediately wash with soap and water. Remove contaminated clothing and launder before reuse. It is not

recommended to remove resin from skin with solvents. Solvents only increase contact and dry skin. Seek

qualified medical attention if allergic reactions occur.

Eyes: Immediately flush with water for at least 15 minutes. Call a physician.

Ingestion: If swallowed, call a physician immediately. Remove stomach contents by gastric suction or induce

vomiting only as directed by medical personnel. Never give anything by mouth to an unconscious person.

Refer to the Material Safety Data Sheet before using this product.