

RIGID FILLED & UNFILLED URETHANES

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

TC-805 A/B 75 SHORE D POLYURETHANE CASTING SYSTEM



PRODUCT DESCRIPTION:

TC-805 A/B produces a 75 Shore D material that provides excellent physical properties. TC-805 A/B was designed for a wide variety of part making applications and has a very attractive value pricing.

PRODUCT HIGHLIGHTS:

- Non-mercury based catalyst system
- ➤ 15 20 minute work time
- Odorless, clean white color
- > 3 4 hour demold time
- Low viscosity

PHYSICAL PROPERTIES:

Hardness, Shore D ASTM D2240-04e1	75 ± 2
Density, (g/cc) ASTM D792-00	1.12
Cubic Inches per Pound	25.6
Color/Appearance	White/Opaque
Tensile Strength, (psi) ASTM D638-03	
Tensile Modulus, (psi) ASTM D638-03	2.1 x 10 ⁵
Elongation, (%) ASTM D638-03	10
Flexural Strength, (psi) ASTM D790-03	9,800
Flexural Modulus, (psi) ASTM D790-03	2.42×10^5
Flexural Modulus, (psi) ASTM D790-03	0.006
Izod Impact, notched (ft-lb/in) ASTM D256-05	0.66
Heat Deflection Temperature, ASTM D648-04:	
66 psi	203°F (93°C)
26 ⁴ psi	
Note: Reported physical properties based on elevated temperature cured test specimens.	, ,

HANDLING PROPERTIES:

Mix Ratio (by weight):	
Part A	
Part B	50 parts by weight
Mix Ratio (by volume):	
Part A	
Part B	52 parts by volume
Specific Gravity:	
Part A	
Part B	
Viscosity, (cps) @ 77°F (25°C) Brookfield:	
Part A	
Part B	
Mixed	160

Quality Management System Registered to ISO 9001:2008

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Date: 04/01/2013

For more information call BJB Enterprises, Inc. (714) 734-8450 Fax (714) 734-8929

HANDLING PROPERTIES (continued):

Color:

Part A	Yellow
Part B	
Work Time, (100 gram mass) @ 77°F (25°C)	
Demold Time @ 77°F (25°C)	

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 150-180°F (66-82°C). Support of the part may be required to prevent part deformation during heat cure.

VACUUM DE-GASSING/ DE-AIRING:

It is advisable whenever possible to evacuate entrapped air prior to casting this system. The use of de-airing agent, (BJB's AF-4), can speed the process.

NOTE:

TC-805 A/B with its non-mercury catalyst system does exhibit greater sensitivity to moisture than do similar products that use mercury-containing catalysts. TC-805 A/B should be stored at ambient temperature and the TC-805 "B" component may require vacuum de-airing prior to combining it with the "A" component. Evacuation of the mixing components is mandatory in order to achieve best results. It is recommended that the "A" & "B" components as well as the mold should be pre-conditioned to a minimum of 80° F prior to use. If further information is required, please contact BJB's technical staff for assistance.

STORAGE:

Store in a cool dry place. Unopened containers will have a shelf life of 6 months from the date of shipment when properly stored at room temperatures. Purge opened containers with dry nitrogen before re-sealing.

PACKAGING:

Gallon Kits	
5 Gallon Kits	
Drum Kits	400 lbs. A. 200 lbs. B.

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.

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