

RIGID FILLED & UNFILLED URETHANES

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

TC-890 A/B RIGID 80 SHORE D URETHANE CASTING SYSTEM



TC-890 A/B incorporates a non-mercury based catalyst system that produces a tough 80 shore D material with a 5-minute work time. This system can be used to hand pour electronic housing, models of all kinds, and point of purchase items. This system is also available in a 20-minute work time (TC-892), and a 12-minute work time (TC-891).

- Non-mercury
- Convenient mixing ratio: 1 to 1 parts by weight
- Demold time: 1-2 hours at ambient temperature in a silicone rubber mold (1/8" thick section)
- RoHS/REACH compliant
- Low viscosity, flows easily

TEST METHOD	RESULTS
ASTM D2240	80 ± 2
ASTM D792	1.14
N/A	25
Visual	Off White/Opaque
ASTM D638	7,600
ASTM D638	2.4 x 10⁵
ASTM D638	10
ASTM D790	10,000
ASTM D790	2.5 x 10⁵
12"x1/2"x1/2"	0.004
ASTM D256	0.7
ASTM D648	195°F (90.6°C)
ASTM D648	177°F (80.6°C)
	ASTM D2240 ASTM D792 N/A Visual ASTM D638 ASTM D638 ASTM D638 ASTM D638 ASTM D638 ASTM D790 12"x1/2"x1/2" ASTM D256 ASTM D648

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

HANDLING PROPERTIES	Part A	Part B	
Mix Ratio by weight	100	100	
Mix Ratio by volume	88	100	
Specific Gravity @ 77°F (25°C)	1.18	1.04	
Color	Yellow	White	
Viscosity (cps) @ 77°F (25°C) Brookfield	325	830	
Mixed Viscosity (cps) @ 77°F (25°C) Brookfield	725		
Work Time, 100g mass @ 77°F (25°C)	5 minutes		
Gel Time	7 minutes		
Demold Time @ 77°F (25°C)	1 – 2 hours		

Properties above are typical and not for specifications.

Quality Management System Registered to ISO 9001:2008

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<u>CURE SCHEDULE/HEAT CURING</u>:

Most of the physical properties can be achieved in 5-7 days at 77°F (25°C). You may use your own post-cure schedule but the physical properties may vary from BJB's cure schedule of 1-3 hours at 77°F (25°C) followed by 16 hours at 180°F (82°C). Do not exceed curing temperatures of 200°F (93°C). Support of the part may be required to prevent part deformation during the heat curing process.

NOTE:

It is advisable whenever possible to evacuate entrapped air prior to casting this system. The use of a de-airing agent can speed up the process. BJB's AF-7 antifoam works best as the de-airing agent. In conjunction with these support products BJB offers pigments in a wide variety of colors and stainless steel mixers called "Jiffy Mixers." 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 at ambient temperatures, 65-80°F (18-27°C). Unopened containers will have a shelf life of 6 months from date of shipment when properly stored at recommended temperatures. Purge opened containers with dry nitrogen before re-sealing.

PACKAGING	Part A	Part B	Cubic Inches per Kit
Gallon Kits	8 lbs.	8 lbs.	400
5-Gallon Kits	40 lbs.	40 lbs.	2,000
55-Gallon Drum Kits	400 lbs.	400 lbs.	20,000

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.





TC-890 Part A SDS



TC-890 Part B SDS

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NON-WARRANTY "Except for a warranty that materials substantially comply with the data presented in Manufacturer's latest bulletin describing the product (the basis for this substantial compliance is to be determined by the standard quality control tests generally performed by Manufacturer), all materials are sold "AS IS" and without any warranty express or implied as to merchantability, fitness for a particular purpose, patent, trademark or copyright infringement, or as to any other matter. In no event shall Manufacturer's liability for damages exceed Manufacturer's sale price of the particular quantity with respect to which damages are claimed."