

TC-9462 A/B

CASTABLE HIGH PERFORMANCE 60 SHORE D POLYURETHANE ELASTOMER

TC-9462 A/B is a two-component urethane casting compound that is specifically formulated for high abrasion and impact resistance. It is recommended for use in the casting of highly wear-resistant parts and linings. This product is a safe, easy-to-handle, room temperature mixing and curing system that does not contain TDI, MDI, MDA, or MOCA. TC-9462 A/B is relatively insensitive to typical environmental moisture and will make good void-free parts. Because of this product's exceptional toughness and abrasion resistance, castings made with TC-9462 A/B are particularly suitable for mining and mineral process industries.

- High impact resistance
- Exceptionally tough, abrasion resistant
- Room temperature mixing and curing
- Low viscosity
- Easy to handle
- Mercury free

PHYSICAL PROPERTIES	TEST METHOD	TEST RESULTS
Hardness, Shore D	ASTM D2240-04el	60±5
Density (g/cc)	ASTM D792-00	1.09
Cubic Inches per Pound	N/A	26
Color/Appearance	Visual	Amber/Transparent
Tensile Strength (psi)	ASTM D638-03	5,000
Tensile Modulus (psi)	ASTM D638-03	2.19 x 10 ⁴
Elongation (%)	ASTM D638-03	525
Tear Strength (psi)	ASTM D624-00el	585
Flexural Strength (psi)	ASTM D790-00	1,930
Flexural Modulus (psi)	ASTM D790-00	4.78 x 10 ⁴
Shrinkage (in/in) linear	ASTM D2566	0.002
Izod Impact, notched (ft-lb/in)	ASTM D256-05	14.0

HANDLING PROPERTIES	Part A	Part B
Mix Ratio (by weight)	100	60
Mix Ratio (by volume)	100	58
Specific Gravity @ 77°F (25°C)	1.05	1.09
Color	Colorless	Amber
Viscosity (cps) @ 77°F (25°C) Brookfield	6,650	200
Mixed Viscosity (cps) @ 77°F (25°C) Brookfield	2,450	
Work Time, 100g mass @ 77°F (25°C)	15 minutes	
Gel Time	25 minutes	
Demold Time @ 77°F (25°C)	4 – 5 hours	

CURE SCHEDULE/HEAT CURING:

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 160 °F (71). Do not exceed curing temperatures of 200°F (93°C).

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.	4.8 lbs.	333
5-Gallon Kits	40 lbs.	24 lbs.	1,664
55-Gallon Drum Kits	400 lbs.	240 lbs.	16,640

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.



Handling Guide



TC-9462 Part A SDS



TC-9462 Part B SDS