



TC-960 A/B

60 SHORE A POLYURETHANE ELASTOMER

PRODUCT DESCRIPTION:

TC-960 A/B is a multi-purpose elastomer that can perform many functions. Typical product uses are:

- Mold fabrication
- Skin membranes for animated characters
- Bumpers and many types of urethane rubber parts
- Electrical potting and cable sealing applications
- Excellent as an adhesive for high strength and resilient bonds
- Adheres to "hard to bond" plastics
- Available in a brushable grade version designated TC-962 A/B

PHYSICAL PROPERTIES:

Hardness, Shore A ASTM D-2240.....	60
Density, (g/cc) ASTM D-792.....	1.06
Cubic Inches per Pound	26.4
Color/Appearance.....	Amber/Translucent
Tensile Strength, (psi) ASTM D-412.....	850
Elongation, (%) ASTM D-412.....	450
Tear Strength, (pli) ASTM D-624	180
Shrinkage, (in./in.) linear ASTM D-2566.....	0.009

HANDLING PROPERTIES:

Mix Ratio (by weight):

Part A.....	100 parts by weight
Part B	100 parts by weight

Mix Ratio (by volume):

Part A.....	96 parts by volume
Part B	100 parts by volume

Specific Gravity:

Part A.....	1.08
Part B	1.03

Viscosity, (cps) @ 77°F (25°C) Brookfield:

Part A.....	13,500
Part B	750
Mixed.....	2,500

Work Time (100g mass) @ 77°F (25°C).....30 minutes

Demold Time @ 77°F (25°C)..... 8 - 14 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 160°F (71°C).

MOLD PREPARATION AND RELEASING:

When TC-960 A/B is used to reproduce molds from plaster, wood or other porous substrates, we would first recommend that they be sealed. Release agents may then be applied over the sealed surface. Consult with BJB's technical staff for specific release agent recommendations.

STORAGE:

Store in a cool dry place. Unopened containers of TC-960 A/B will have a shelf life of 6 months from date of shipment when properly stored under normal indoor conditions, i.e., 77° ± 15° F (25° ± 10°C). Prolonged direct exposure to sunlight can affect the surface of this product. Cover molds or other products when storing outdoors. **The cure will be inhibited if cast against a tin catalyzed silicone RTV.**

PACKAGING:

Gallon kits..... 8 lbs. A, 8 lbs. B
5 Gallon kits..... 40 lbs. A, 40 lbs. B
55-Gallon drum kits..... 400 lbs. A, 400 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.

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."