



SILICONE CASTING RUBBERS

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

TC-5040 A/B TRANSLUCENT SILICONE RUBBER

PRODUCT DESCRIPTION:

TC-5040 A/B is a room temperature, addition/platinum curing silicone rubber designed for mold making, encapsulation applications, pressure pads, gaskets, and various other types of parts. When this rubber is used to make certain types of molds, it is translucent enough to see through when casting into the mold cavity.

PHYSICAL PROPERTIES:

Hardness, Shore A ASTM D2240	40 ± 5
Density, (g/cc) cured ASTM D792	1.09
Cubic Inches per Pound	25.7
Color/Appearance	Colorless/Translucent
Tensile Strength, (psi) ASTM D412	865
Elongation, (%) ASTM D412 Die B	540
Tear Strength, (pli) ASTM D624	95
Shrinkage, (in/in) linear ASTM D2566.....	Nil
Coefficient of Thermal Expansion, (in/in/°F)	8.5 x 10 ⁻⁵

HANDLING PROPERTIES:

Mix Ratio (by weight):	
Part A	100 parts by weight
Part B	10 parts by weight
Specific Gravity:	
Part A	1.09
Part B	0.99
Viscosity (cps) @ 77°F (25°C) Brookfield:	
Part A	125,000
Part B	550
Mixed.....	65,000
Color:	
Part A	Colorless
Part B	Colorless
Work Time @ 77°F (25°C)	40 - 45 minutes
Gel Time.....	60-65 minutes
Demold Time @ 77°F (25°C)	16 - 24 hours

INHIBITION:

Certain materials will cause inhibition or neutralization of the curing agent. These materials are sulphur and organometallic salt containing compounds such as organic rubbers and condensation cured RTV silicone rubbers. Inhibition may easily be determined by brushing a small quantity of TC-5040 A/B over a localized area of the surface to be reproduced. If the TC-5040 A/B is gummy or uncured after the curing time, then you know the mold surface is acting as an inhibitor. Molds made from wood, plaster, metal or plastic should not cause inhibition if they are clean. To insure against possible problems, it is advisable to spray a barrier film (BJB product RF-5124) over any questionable surfaces. This is the best way of treating clays and surfaces that cause inhibition.

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 before re-sealing.

PACKAGING:

Quart Kits	2 lbs. A, 3.2 oz. B
Gallon Kits	8 lbs. A, 13 oz. B
5-Gallon Kits	40 lbs. A, 4 lbs. B
Drum Kits	450 lbs. A, 45 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."