



TC-5061 A/B

50-55 SHORE A HIGH TEAR STRENGTH ROOM TEMPERATURE CURING SILICONE

TC-5061 A/B is a room temperature, addition/platinum curing silicone rubber designed for:

- Mold making
- Encapsulation applications
- Pressure pads
- Gaskets
- Casting low-melt metals into
- Various types of parts

With the use of talc powder as an interface the TC-5061 has been used with cast metal temperatures running 650°F (344°C) and has been subject to temperatures up to 850°F (454°C) for making a limited number of casts. With the ability to withstand high temperatures the TC-5061 works very well as a mask for metal spraying and welding operations.

PHYSICAL PROPERTIES	TEST METHOD	RESULTS
Hardness, Shore A	ASTM D 2240-04e1	55 ± 5
Density (g/cc)	ASTM D 792-00	1.34
Cubic Inches per Pound	N/A	20.8
Color/Appearance	Visual	Pale Lavender
Tensile Strength (psi)	ASTM D 412-98a (2002)e1	707
Elongation (%)	ASTM D 412-98a (2002)e1	407
Tear Strength (pli)	ASTM D 624-00e1 Die B	97
Coefficient of Thermal Expansion, (in/in/°F)	ASTM E831	13.95 x 10 ⁻⁵
Shrinkage (in/in) linear	ASTM D2566 @ 1" depth	Nil

HANDLING PROPERTIES	Part A	Part B
Mix Ratio by weight	100	10
Mix Ratio by volume	100	14
Specific Gravity @ 77°F (25°C)	1.43	1.03
Color	Off White	Purple
Viscosity (cps) @ 77°F (25°C) Brookfield	65,000	530
Mixed Viscosity (cps) @77°F (25°C) Brookfield	25,000	
Work Time, 100g mass @ 77°F (25°C)	60 minutes	
Gel Time	90 minutes	
Demold Time @ 77°F (25°C)	6 – 8 hours	

INHIBITION:

Certain materials will cause inhibition or neutralization of the curing agent. These materials are sulphur containing and organometallic salt containing compounds such as organic rubbers and many condensation cured RTV silicone rubbers. Inhibition may easily be determined by brushing a small quantity of TC-5061 over a localized area of the surface to be reproduced. If the TC-5061 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 seal the surface with sealers such as RF-5215, SEM Primer, SEM Clear or other appropriate sealers. Contact BJB's Tech Sales for additional information.

STORAGE:

Store ambient temperatures, 65-80°F (18-27°C). Unopened containers will have a shelf life of 12 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
Quart Kits	2 lbs.	3.2 oz.	46
Gallon Kits	8 lbs.	13 oz.	183
5-Gallon Kits	40 lbs.	4 lbs.	915
55-Gallon Drum Kits	450 lbs.	45 lbs.	10,296

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. Solvent 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.

NOTE:

Refer to the Safety Data Sheet before using this product. For processing tips and guides, please visit: learn.bjbmaterials.com to discover additional information.