

TC-5030 A/B

TRANSLUCENT SILICONE RUBBER

TC-5030 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	TEST METHOD	RESULTS
Hardness, Shore A	ASTM D 2240-04e1	30 ± 5
Density (g/cc)	ASTM D 792-00	1.08
Cubic Inches per Pound	N/A	25.7
Color/Appearance	Visual	Colorless/Translucent
Tensile Strength (psi)	ASTM D 412-98a(2002)e1	700
Elongation (%)	ASTM D 412-98a(2002)e1	400
Tear Strength (pli)	ASTM D 624-00e1 Die B	65
Coefficient of Thermal Expansion, (in/in/°F)	ASTM E 831	TBD
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	12
Specific Gravity @ 77°F (25°C)	1.23	1.00
Color	Colorless	Colorless
Mixed Viscosity (cps) @ 77°F (25°C) Brookfield	45,000	
Work Time, 100g mass @ 77°F (25°C)	30 minutes	
Gel Time	75 minutes	
Demold Time @ 77°F (25°C)	24 hours	

Properties above are typical and not for specifications.

INHIBITION:

Certain materials will cause inhibition or neutralization of the curing agent. These materials include condensation/tin cured based silicone, lacquer and enamel coatings, polyester-based products, copper or copper containing metals, some SLA resins, and natural rubbers like latex. Inhibition may easily be determined by brushing a small quantity of TC-5030 A/B over a localized area of the surface to be reproduced. If the TC-5030 A/B is tacky or uncured after the cure time, then you know the mold surface is acting as an inhibitor. Molds made from wood, plaster, steel, aluminum, or plastic should not cause inhibition if they are clean. To insure against possible problems, it is advisable to spray a barrier film over any questionable surfaces. This is the best way of treating clays and other surfaces that cause inhibition. Contact BJB for recommended products.

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.	57
Gallon Kits	8 lbs.	13 oz.	227
5-Gallon Kits	40 lbs.	4 lbs.	1131
55-Gallon Drum Kits	450 lbs.	45 lbs.	12,722

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.



Silicone Handling Guide



TC-5030 Part A SDS



TC-5030 Part B SDS