

BCC Products BC 9040 T Silicone RTV Rubber

Category : Polymer , Adhesive , Thermoset , Silicone , Silicone, RTV, Adhesive/Sealant Grade

Material Notes:

BC 9040T is a clear, addition/platinum cure, two-component, flowable compound that, regardless of thickness or confinement, cures at room temperature or by application heat. The cured rubber is high strength and high tear with good elongation. Application: BC9040T is a mold-making material recommended for repetitive production of intricate shapes cast in epoxy or urethane resins. It is also used in the potting of electronic components and in protecting sensitive assemblies against thermal shock and vibration. Deaeration: air entrapped during the mixing cycle must be removed to eliminate voids in the cured compound. Place the mixture in a vacuum of 29 inches of mercury. The mixture will expand to 4-5 times its original volume, crest and recede approximately to its original level. Continue the deaeration for an additional 1-2 minutes and the material will be ready to use. Pouring: pour the silicone material in a continuous stream from approximately 3 inches above the pattern and allow to settle for 5 minutes. Remaining contents are then poured into the mold frame. Adhesion: Two components RTV rubbers show no adhesion to any material except RTV rubbers or conventional silicone rubbers, so primers are required to achieve adhesion to other materials. Storage and Handling: BC 9040T base and Catalyst-BC 9040T will remain useful for six (6) months from date of shipment when stored in their original unopened containers in a dry place at or below 80 °F. Avoid contact of Catalyst-BC 9040T with acidic bases and oxidizing materials as such can generate flammable gas. Information provided by BCC Products, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BCC-Products-BC-9040-T-Silicone-RTV-Rubber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	
Brookfield Viscosity	1000 cP	1000 cP	Catalyst
	38000 cP	38000 cP	Mixed
	52000 cP @Temperature 25.0 °C	52000 cP @Temperature 77.0 °F	Compound

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	40	40	
Tensile Strength, Ultimate	5.17 MPa	750 psi	
Elongation at Break	375 %	375 %	
Tear Strength	14.9 kN/m	85.0 pli	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	
Dielectric Constant	3.1	3.1	

Electrical Properties	@Frequency 100 Hz Metric	@Frequency 100 Hz English	Comments
	3.1	3.1	
	@Frequency 1.00 Hz	@Frequency 1.00 Hz	
Dielectric Strength	23.0 kV/mm	584 kV/in	
	0.0010	0.0010	
Dissipation Factor	@Frequency 100 Hz	@Frequency 100 Hz	
	0.0010	0.0010	
	@Frequency 1.00 Hz	@Frequency 1.00 Hz	
Arc Resistance	180 sec	180 sec	

Processing Properties	Metric	English	Comments
	90.0 min	1.50 hour	
Cure Time	@Temperature 60.0 °C	@Temperature 140 °F	
	90 min	90 min	
Pot Life	@Temperature 25.0 °C	@Temperature 77.0 °F	
Shelf Life	6.00 Month	6.00 Month	

Descriptive Properties	Value	Comments
Mix Ratio	10:1 by weight	

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