

BCC Products BC 9060 Silicone RTV Rubber

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

Material Notes:

BC 9060 is a blue colored, 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: BC 9060 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. Cured Compatibility: cure inhibition (poisoning) of BC 9060 may be caused by various materials used in the master pattern. When the BC 9060 comes in contact with such materials as sulphur containing clays, phosphorous, nitrogen containing materials, organometallic salt (Dibutyl-tin dilaurate, etc.) certain organic adhesives and tapes, cure is hindered. This condition is characterized by a gummy appearance in the surface of the silicone rubber at the interface of the silicone and substrate. A pretest of compatibility is recommended for each suspect substrate to determine whether a barrier coat or other inhibition prevention measure is necessary. Information provided by BCC Products, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BCC-Products-BC-9060-Silicone-RTV-Rubber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.26 g/cc	1.26 g/cc	
Brookfield Viscosity	10000 cP	10000 cP	Mixed
	140000 cP	140000 cP	Compound
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Linear Mold Shrinkage	0.0010 cm/cm	0.0010 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	60	60	
Tensile Strength, Ultimate	5.52 MPa	800 psi	
Elongation at Break	200 %	200 %	
Tear Strength	15.8 kN/m	90.0 pli	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	232 °C	450 °F	
Minimum Service Temperature, Air	-59.4 °C	-75.0 °F	

Processing Properties	Metric	English	Comments
Cure Time	15.0 min	0.250 hour	10% cure
	@Temperature 60.0 °C	@Temperature 140 °F	
	24.0 min	0.400 hour	90% cure
	@Temperature 60.0 °C	@Temperature 140 °F	
Pot Life	120 min	120 min	
	@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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