

## BCC Products BC 9020 Silicone RTV Rubber

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

### Material Notes:

BC 9020 is a violet colored, two-component, flowable compound that regardless of thickness or confinement, cures at room temperature. The cured rubber is high strength and high tear with good elongation. In addition, BC9020 features low viscosity, low durometer and resistance to sulfur clays. Application: BC 9020 is a mold making material designed for the manufacture of flexible molds. These rubber molds are recommended for the use in repetitive production of intricate shapes cast from epoxy or urethane resins. These molds are also used in the potting of electronic components and in protecting sensitive assemblies against thermal shock and vibration. Temperatures above 80° F in the modeling and encapsulating area should be avoided to prevent premature expiration of pot life. BC9020 should be thoroughly stirred before mixing, since pigments settle during storage. Mixing containers should be clean and dry before use and then should be filled to 1/4 capacity to allow room for mixing and deaeration. It is recommended that separate tools be used for mixing the catalyst and the compound to avoid cross contamination. When mixing by hand, material clinging to sides and bottom should be folded into main contents twice. When mixing is done with a power mixer, two fifteensecond cycles are generally sufficient for thorough mixing. Avoid prolonged mixing at high speeds as this will generate heat and decrease the pot life of the material. 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 `3-5 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. Information provided by BCC Products, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_BCC-Products-BC-9020-Silicone-RTV-Rubber.php](http://www.lookpolymers.com/polymer_BCC-Products-BC-9020-Silicone-RTV-Rubber.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	
Brookfield Viscosity	10000 cP	10000 cP	Catalyst
	3.10e+6 cP	3.10e+6 cP	Mixed
	7.00e+6 cP @Temperature 25.0 °C	7.00e+6 cP @Temperature 77.0 °F	Compound
Linear Mold Shrinkage	0.0030 - 0.0040 cm/cm	0.0030 - 0.0040 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	20 - 25	20 - 25	
Tensile Strength, Ultimate	4.14 MPa	600 psi	
Elongation at Break	500 %	500 %	
Tear Strength	21.0 kN/m	120 pli	

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
	480 min	8.00 hour	handling time
	@Temperature 24.0 °C	@Temperature 75.2 °F	
	1440 min	24.0 hour	90% cure
	@Temperature 24.0 °C	@Temperature 75.2 °F	
	2880 min	48.0 hour	full cure
	@Temperature 24.0 °C	@Temperature 75.2 °F	
Pot Life	60 min	60 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	

**Contact Songhan Plastic Technology Co.,Ltd.**

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