

BCC Products BC 7009-1 Epoxy Casting

Category : Polymer , Thermoset , Epoxy

Material Notes:

BC 7009-1 is an iron filled, low-cost mass casting system. Thicknesses up to two inches in non-conductive molds, and four inches in conductive molds can be achieved without foaming or yielding excessive shrinkage. Ideal for stretch forms, patterns, dies, molds, duplications, prototypes, etc. Information provided by BCC Products, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BCC-Products-BC-7009-1-Epoxy-Casting.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.24 g/cc	2.24 g/cc	
Brookfield Viscosity	20000 cP @Temperature 23.9 °C	20000 cP @Temperature 75.0 °F	Mixed
Linear Mold Shrinkage	0.0010 cm/cm	0.0010 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	87 @Temperature 23.9 °C	87 @Temperature 75.0 °F	
Tensile Strength, Ultimate	42.7 MPa	6200 psi	
Flexural Strength	53.8 MPa	7800 psi	
Flexural Modulus	6.76 GPa	980 ksi	
Compressive Strength	102 MPa	14800 psi	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	58.9 °C	138 °F	

Processing Properties	Metric	English	Comments
Cure Time	960 min @Temperature 24.0 °C	16.0 hour @Temperature 75.2 °F	
Pot Life	90 min @Temperature 24.0 °C	90 min @Temperature 75.2 °F	2 lb. mass

Descriptive Properties	Value	Comments
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Machinability Descriptive Properties	Good Value	Comments
Mix Ratio	100:10 by weight, 100:26 by volume, resin/harder	

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