

BCC Products BC 7136 Epoxy Casting

Category : Polymer , Thermoset , Epoxy

Material Notes:

BC7136 is a gray, low toxicity, aluminum filled, epoxy casting resin. This heat resistant system may be used at room temperature without post-curing. May be cast to a thickness of 3/4 inch in non-conductive molds. For use above 150°F a post-cure is required. This product was engineered to replace VCHD and MDA systems while retaining excellent heat resistance and low viscosity. BC7136 is designed for consistent use up to 300°F. Uses: heat resistant tooling, constructing vacuum form tools, injection and compression molds, RTM and RIM molds, matched dies. Information provided by BCC Products, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BCC-Products-BC-7136-Epoxy-Casting.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.69 g/cc	1.69 g/cc	
Brookfield Viscosity	15000 cP @Temperature 23.9 °C	15000 cP @Temperature 75.0 °F	Mixed
Linear Mold Shrinkage	0.0011 cm/cm	0.0011 in/in	ASTM D2566-69

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	90 @Temperature 23.9 °C	90 @Temperature 75.0 °F	
Tensile Strength, Ultimate	53.8 MPa	7800 psi	
Flexural Strength	59.3 MPa	8600 psi	
Compressive Strength	200 MPa	29000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	34.2 µm/m-°C	19.0 µin/in-°F	
Deflection Temperature at 1.8 MPa (264 psi)	152 °C	305 °F	

Processing Properties	Metric	English	Comments
Cure Time	1440 min @Temperature 24.0 °C	24.0 hour @Temperature 75.2 °F	
Pot Life	85 min @Temperature 24.0 °C	85 min @Temperature 75.2 °F	1 lb. mass

Descriptive Properties	Value	Comments
Mix Ratio	100:7 by weight, 100:12 by volume, resin/harder	

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