

BCC Products BC 7053 Epoxy Casting

Category : Polymer , Thermoset , Epoxy

Material Notes:

BC 7053 is an iron filled epoxy casting system. This system is a high iron content material that provides unsurpassed wear resistance. BC7053 was designed for use in constructing core boxes, holding and trimming fixtures, foundry patterns, etc. Information provided by BCC Products, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BCC-Products-BC-7053-Epoxy-Casting.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.83 g/cc	2.83 g/cc	
Brookfield Viscosity	10000 cP @Temperature 23.9 °C	10000 cP @Temperature 75.0 °F	Mixed
Linear Mold Shrinkage	0.00020 cm/cm	0.00020 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	49.6 MPa	7200 psi	
Flexural Strength	62.1 MPa	9000 psi	
Compressive Strength	106 MPa	15400 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	57.6 µm/m-°C	32.0 µin/in-°F	
Heat Distortion Temperature	52.8 °C	127 °F	

Processing Properties	Metric	English	Comments
Cure Time	720 - 1080 min @Temperature 24.0 °C	12.0 - 18.0 hour @Temperature 75.2 °F	
	10080 min @Temperature 24.0 °C	168.0 hour @Temperature 75.2 °F	complete cure
Pot Life	55 - 60 min @Temperature 24.0 °C	55 - 60 min @Temperature 75.2 °F	1 lb. mass

Descriptive Properties	Value	Comments
Machinability	Good	
Mix Ratio	100:5 by weight, 100:6.5 by volume, resin/harder	

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