

BCC Products BC 5105 Epoxy Laminating System

Category : Polymer , Thermoset , Epoxy

Material Notes:

BC 5105 is a clear, unfilled, low viscosity laminating system. This heat resistant resin exhibits excellent wet out, reasonable working time and may be used at room temperature without post-curing. For use above 150°F a post-cure may be required. BC 5105 can afford consistent use to 300°F if required. Does not contain VCHD or MDA. Uses: constructing vacuum form tools, injection and compression molds, RTM and RIM molds, and matched dies. Information provided by BCC Products, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BCC-Products-BC-5105-Epoxy-Laminating-System.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc	1.15 g/cc	
Brookfield Viscosity	2000 cP @Temperature 23.9 °C	2000 cP @Temperature 75.0 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	90 @Temperature 23.9 °C	90 @Temperature 75.0 °F	
Tensile Strength, Ultimate	200 MPa	29000 psi	10 oz glass cloth laminate
Flexural Strength	234 MPa	34000 psi	10 oz glass cloth laminate
Compressive Strength	404 MPa	58600 psi	10 oz glass cloth laminate

Thermal Properties	Metric	English	Comments
CTE, linear	16.2 µm/m-°C	9.00 µin/in-°F	10 oz glass cloth laminate
Deflection Temperature at 1.8 MPa (264 psi)	145 °C	293 °F	

Processing Properties	Metric	English	Comments
Cure Time	1440 min @Temperature 24.0 °C	24.0 hour @Temperature 75.2 °F	
Pot Life	55 min @Temperature 24.0 °C	55 min @Temperature 75.2 °F	

Descriptive Properties	Value	Comments
Mix Ratio	100:17 by weight, 100:20 by volume, resin/harder	

Descriptive Properties	Value	Comments
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