

BCC Resins BC 5114

Epoxy; Epoxide
BCC Products Inc.

Message:

BC 5114 is a gray low viscosity laminating system. This heat resistant resin exhibits excellent wet out, reasonable working time and may be used at room temperature without postcuring. For use above 150°F a post-cure is required. Post cure for applications requiring temperatures above 150°F can be accomplished in an oven or in use by a gradual heat rise; 2hours @ 150°F, plus 2 hours @ 250°F, plus 2 hours at 300°F. BC 5105 can afford consistent use to 300°F if required. Does not contain VCHD or MDA. Typical uses include constructing vacuum form tools, Injection and compression molds, RTM and RIM molds, and matched dies.

General Information			
Features	High Heat Resistance		
	Low Viscosity		
Uses	Laminates		
Appearance	Grey		
Forms	Liquid		
Processing Method	Laminating		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.31	g/cm ³	ASTM D792
--	1.30	g/cm ³	ASTM D1505
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	90		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Ultimate)	179	MPa	ASTM D638
Flexural Strength (Break)	228	MPa	ASTM D790
Compressive Strength	364	MPa	ASTM D695
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	146	°C	ASTM D648
CLTE - Flow	2.3E-5	cm/cm/°C	ASTM D696
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Hardener	Mix Ratio by Weight: 13, Mix Ratio by Volume: 18		
Resin	Mix Ratio by Weight: 100, Mix Ratio by Volume: 100		
Pot Life (24°C)	60	min	
Thermoset Mix Viscosity (24°C)	3600	cP	ASTM D2393
Demold Time	1400	min	

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