



BCC PRODUCTS, INC.

BLEHM PLASTICS

FAST CAST – EPOXIES – ADHESIVES - POLYSULFIDES - URETHANES – POLYESTER PASTES – TOOLING BOARDS – RELEASE AGENTS – SILICONES

Provisional Technical Data Sheet

BC 5500

Infusion System

Room Temperature, Ultra-Low Viscosity Epoxy Resin System

Applications

BCC Products BC 5500 R/H is a very low viscosity yet tough system for the production of composite parts or tools using an infusion process such as Vacuum Assisted Resin Transfer Molding, RTM or other infusion processes.

Working Properties

Mix Ratio (Resin/Hardener)	100 to 21 by wt.
Gel Time (114 g. mass) @75°F	120- 140 Minutes
Cure Schedule @ 75°F	12-18 Hours
Full Cure @ 75°F	3 Days

TEST	UNIT	RESULTS
Appearance:	Visual	Clear Liquid
Resin Viscosity @ 75°F:	cps	500 - 550
Hardener Viscosity @ 75°F:	cps	20 - 30
Mixed Viscosity@ 75°F	Cps	75-100
Weight per gallon:	lbs/gallon	7.6

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EPOXY Infusion System

BC 5500

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Typical Properties

	VALUE	TEST METHOD
Color	Transparent	Visual
Hardness, Shore D	81	ASTM D-2240
Density, g/cm ³ (lbs/ft ³)	1.1 (68.3)	ASTM D-792
Heat Deflection Temperature, °F	TBD	ASTM D-648
Glass Transition Temperature, °F	160°F	ASTM D-3418
Coefficient of Thermal Expansion, in/in/°F	TBD	ASTM D-3386
Izod Impact, Notched ,ft-lbs/in	TBD	ASTM D-256
Linear Shrinkage, Mold 0	<.001	ASTM D-2566
Tensile Strength, psi	7,900	ASTM D-638
Flexural Strength, psi	11,250	ASTM D-790
Flexural Modulus, psi	315,000	ASTM D-790
Compressive Strength, psi	15,000	ASTM D-695
Compressive Modulus, psi	300,000	ASTM D-695

NOTE: The information contained herein is believed to be reliable. All recommendations are made without guarantee inasmuch as conditions and methods of commercial use are beyond our control. Properties given are typical values and are not intended for use in preparing specifications. It is expressly understood and agreed that customer assumes and hereby expressly releases Bcc Products from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance and information

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