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XP 2014-003

Provisional Technical Data Sheet

60-Minute Toughened Resin Infusion System

Room Temperature, Low Viscosity Epoxy Resin System

TEST	UNIT	RESULTS
Appearance	Visual	Clear/ Light Yellow Liquid
Resin Viscosity @ 75°F	cps	650
Hardener Viscosity @ 75°F	cps	15
Mixed Viscosity @ 75°F Spindle #2 @ 20 rpm	cps	125

Applications

BCC Products XP 2014-003R/H is a 60-minute, 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 18 by wt.
Gel Time (118 g. mass) @75°F	55-75 Minutes
Cure Schedule @ 75°F	24 Hours
Cure Schedule @ 176°F	8 Hours
Full Cure @ 75°F	7 Days

Typical Properties

PROPERTY	VALUE	TEST METHOD
Color	Clear/Lt. Amber	Visual
Hardness, Shore D	80	ASTM D-2240
Density, g/cm3 (lbs/ft3)	1.1 (68.3)	ASTM D-792
Heat Deflection Temperature, °F RT Cure	120	ASTM D-648
Heat Deflection Temperature, °F 176°F Cure	158	ASTM D-648
Coefficient of Thermal Expansion, in/in/°F	TBD	ASTM D-3386
Tensile Strength, psi, RT Cure	8157*	ASTM D-638
Tensile Strength, psi, 176°F (80°C) Cure	9860*	ASTM D-638
Izod Impact, ft-lbs/in	TBD	ASTM D-256
Linear Shrinkage, Mold 00 Cured 7 days at RT	<.001 in./in.	ASTM D-2566
Linear Shrinkage, Mold 00 Cured 8 hrs @ 80°C	.0015	ASTM D-2566

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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.