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XP 2014-012

Provisional Technical Data Sheet

Intermediate Temperature, Low Viscosity Epoxy Resin Infusion System

TEST	UNIT	RESULTS
Appearance	Visual	Clear/ Light Yellow Liquid
Resin Viscosity @ 75°F	cps	1700
Hardener Viscosity @ 75°F	cps	60
Mixed Viscosity @ 75°F Spindle #2 @ 20 rpm	cps	600

Applications

BCC Products XP 2014-012 R/H is an intermediate to high temperature, 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)	100/26 by wt.
Gel Time (126 g. mass) @75°F	140 Minutes
Cure Schedule @ 75°F	24 Hours
Recommended post-cure	2 hrs @ 150 + 2 hrs @ 250 + 3 hrs @350°F

NOTE: A cure of at least 150°F is needed to advance the material past a brittle stage.

Typical Properties (Neat Resin*)

PROPERTY	VALUE	TEST METHOD
Color	Clear/Lt. Amber	Visual
Hardness, Shore D	86	ASTM D-2240
Density, g/cm ³ (lbs/ft ³)	1.1 (68.3)	ASTM D-792
Heat Deflection Temperature, 350°F Cure	272	ASTM D-648
Ultimate Flexural Strength, psi	~12,000	ASTM D-790
Ultimate Flexural Modulus, psi	~400,000	ASTM D-790
Ultimate Tensile Strength, psi	~7,000	ASTM D-638
Ultimate Tensile Modulus, psi	~350,000	ASTM D-638

*After recommended post-cure

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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.