

Renegade Materials Corporation RM-3010 Bismaleimide (BMI) Resin for VARTM

Category : Polymer , Thermoset , Filled/Reinforced Thermoset

Material Notes:

Developed using state-of-the-art formulating technologies, RM-3010 One-Part BMI VARTM resin delivers superior hot/wet performance in airframe, missile and propulsion applications at service temperatures up to 400°F. RM-3010 BMI resin delivers improved damage tolerance at higher temperatures vs. industry-standard BMI resins. RM-3010 resin can be injected into a variety of woven and non-crimp fabrics as well as braids and other complex engineered preforms. Its long pot life (< 1000 cps @ 8 hours at 110°C) makes it very suitable for injecting large complex structural parts. Renegade also offers a similar resin system for Resin Transfer Molding (RTM) processing to support molding of smaller, tightly toleranced parts called RM-3000 and an autoclave prepreg version called RM-3002. Information provided by Renegade Materials Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Renegade-Materials-Corporation-RM-3010-Bismaleimide-BMI-Resin-for-VARTM.php

Physical Properties	Metric	English	Comments
Density	1.25 g/cc	0.0452 lb/in ³	Cured; ASTM D790

Mechanical Properties	Metric	English	Comments
Flexural Strength	124 MPa	18000 psi	
Flexural Modulus	4.59 GPa	665 ksi	

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	252 °C	485 °F	Wet, Storage Modulus (Immersion for 72 hr, 180°F)
	279 °C	534 °F	Dry, Storage Modulus

Descriptive Properties	Value	Comments
Flexural Strain to Failure	2.5%	

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