

Renegade Materials Corporation RM-3002 Bismaleimide (BMI) Resin 4581 Astroquartz III

Category : Polymer , Thermoset , Filled/Reinforced Thermoset

Material Notes:

Developed using state-of-the-art formulating technologies, RM-3002 BMI prepreg products deliver superior hot/wet performance in airframe, missile and propulsion applications at service temperatures up to 400°F. RM-3002 "next-generation" BMI delivers improved damage tolerance at higher temperatures vs. industry-standard BMI's. Renegade precision-quality prepregs exhibit excellent handling characteristics and are available in woven and unidirectional form on various fibers including carbon, quartz and S2 glass. A wide variety of nano-materials can be incorporated into this resin system for tailored laminate properties and multi-functional performance. Renegade offers paste (RM-3006 and RM-3007) and film (RM-3011) adhesives compatible with RM-3002. Renegade also offers similar resin systems for RTM (RM-3000) or VARTM (RM-3010) processing. Information provided by Renegade Materials Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Renegade-Materials-Corporation-RM-3002-Bismaleimide-BMI-Resin-4581-Astroquartz-III.php

Physical Properties	Metric	English	Comments
Density	1.26 g/cc	0.0456 lb/in ³	Resin

Mechanical Properties	Metric	English	Comments
Elongation at Break	3.6 %	3.6 %	Resin
Flexural Strength	145 MPa	21000 psi	Resin
Flexural Modulus	4.27 GPa	620 ksi	Resin
Compressive Strength	538 MPa	78000 psi	Combined Loading Compression, Dry, RT; ASTM D6641-09
Compressive Modulus	26.2 GPa	3800 ksi	Combined Loading Compression, Dry, RT; ASTM D6641-09
Shear Strength	89.6 MPa	13000 psi	Notched Compression In-plane, Dry, RT; ASTM D3846-02

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.3	3.3	X-band; ASTM D2520
	@Frequency 1.00e+10 Hz	@Frequency 1.00e+10 Hz	
Dissipation Factor	0.0050	0.0050	X-band
	@Frequency 1.00e+10 Hz	@Frequency 1.00e+10 Hz	

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