

Renegade Materials Corporation RM-3000 Bismaleimide (BMI) 6781 S2 Glass Fabric

Category : Polymer , Thermoset , Filled/Reinforced Thermoset

Material Notes:

Developed using state-of-the-art formulating technologies, RM-3000 One Part BMI RTM Resin delivers superior hot/wet performance in airframe, missile and propulsion applications at service temperatures up to 400°F. RM-3000 resin delivers improved damage tolerance at higher temperatures vs. industry-standard BMI resins. RM-3000 resin can be injected into a variety of woven and non-crimp fabrics as well as braids and complex engineered preforms. Renegade also offers a similar resin system for Vacuum Assisted RTM (VARTM) processing to support molding of larger parts called RM-3010 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-3000-Bismaleimide-BMI-6781-S2-Glass-Fabric.php

Physical Properties	Metric	English	Comments
Density	1.25 g/cc	0.0452 lb/in ³	Resin

Mechanical Properties	Metric	English	Comments
Elongation at Break	4.0 %	4.0 %	Resin, RT, Dry
	1.4 %	1.4 %	Wet (140°F/95% RH), 0° Direction; ASTM D6641
	@Temperature 177 °C	@Temperature 350 °F	
	2.3 %	2.3 %	Dry, 0° Direction; ASTM D6641
	@Temperature 21.1 °C	@Temperature 70.0 °F	
Flexural Strength	145 MPa	21000 psi	Resin
Flexural Modulus	4.27 GPa	620 ksi	Resin
Compressive Strength	352 MPa	51000 psi	Wet (140°F/95% RH), 0° Direction; ASTM D6641
	@Temperature 177 °C	@Temperature 350 °F	
	710 MPa	103000 psi	Dry, 0° Direction; ASTM D6641
	@Temperature 21.1 °C	@Temperature 70.0 °F	
Compressive Modulus	28.3 GPa	4100 ksi	Wet (140°F/95% RH), 0° Direction
	@Temperature 177 °C	@Temperature 350 °F	
	33.8 GPa	4900 ksi	Dry, 0° Direction; ASTM D6641
	@Temperature 21.1 °C	@Temperature 70.0 °F	
Shear Strength	33.1 MPa	4800 psi	Wet (140°F/95% RH), In-plane; ASTM D3846

Mechanical Properties	@Temperature 177 °C Metric	@Temperature 350 °F English	Comments
	96.5 MPa	14000 psi	Dry, In-plane; ASTM D3846
	@Temperature 21.1 °C	@Temperature 70.0 °F	

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	247 °C	477 °F	Wet, Resin, Storage Modulus
	282 °C	540 °F	Dry, Resin, Storage Modulus

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