

Hexcel® HexFlow® RTM 6 180°C Epoxy System for Resin Transfer Molding Monocomponent System

Category : Polymer , Thermoset , Epoxy , Epoxy Cure Resin

Material Notes:

HexFlow® RTM 6 is a monocomponent resin already degassed, specifically developed to fulfill the requirements of the aerospace and space industries in advanced resin transfer moulding (RTM) process. HexFlow® RTM 6 is a premixed epoxy system for service temperatures from -60°C up to 180°C (-75°F up to 350°F). At room temperature, it is a brown translucent paste but its viscosity decreases quickly by increasing the resin temperature. Advantages: Monocomponent system; Already degassed; High glass transition temperature; Excellent hot/wet properties; Easy to process (low injection pressure); Long injection window = 150 min at recommended injection temperature; Low moisture absorption; Short, simple cure cycles.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hexcel-HexFlow-RTM-6-180C-Epoxy-System-for-Resin-Transfer-Molding-Monocomponent-System.php

Physical Properties	Metric	English	Comments
Density	1.11 g/cc	0.0401 lb/in ³	Uncured
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	1.14 g/cc	0.0412 lb/in ³	Cured
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	75.0 MPa	10900 psi	Neat Resin; ASTM D638
	860 MPa	125000 psi	Tensile Warp, Dry/RT; Pr EN 2597 B
	830 MPa	120000 psi	Tensile Warp, Wet; Pr EN 2597 B
	@Temperature 80.0 °C	@Temperature 176 °F	
Elongation at Break	3.4 %	3.4 %	Neat Resin; ASTM D638
Tensile Modulus	2.89 GPa	419 ksi	Neat Resin; ASTM D638
	63.0 GPa	9140 ksi	Tensile Warp, Dry/RT; Pr EN 2597 B
	63.0 GPa	9140 ksi	Tensile Warp, Wet; Pr EN 2597 B
Flexural Yield Strength	132 MPa	19100 psi	Neat Resin; ASTM D790
Flexural Modulus	3.30 GPa	479 ksi	Neat Resin; ASTM D790
Compressive Yield Strength	700 MPa	102000 psi	Compression Warp, Dry/RT; Pr EN 2856 TA
	536 MPa	77700 psi	Compression Warp, Wet; Pr EN 2856

Mechanical Properties	Metric @Temperature 80.0 °C	English @Temperature 176 °F	Comments
Compressive Modulus	60.0 GPa	8700 ksi	Compression Warp, Dry/RT; Pr EN 2856 TA
	63.0 GPa @Temperature 80.0 °C	9140 ksi @Temperature 176 °F	Compression Warp, Wet; Pr EN 2856 TA
Shear Modulus	4.30 GPa	624 ksi	In-Plane Shear, Dry/RT; AiTM 1.0002
	35.0 GPa @Temperature 80.0 °C	5080 ksi @Temperature 176 °F	In-Plane Shear, Wet; AiTM 1.0002
Shear Strength	67.0 MPa	9720 psi	I.L.S. Warp, Dry/RT; Pr EN 2563
	100 MPa	14500 psi	In-Plane Shear, Dry/RT; AiTM 1.0002
	78.0 MPa @Temperature 80.0 °C	11300 psi @Temperature 176 °F	In-Plane Shear, Wet; AiTM 1.0002

Processing Properties	Metric	English	Comments
Gel Time	5.00 min @Temperature 240 °C	5.00 min @Temperature 464 °F	
	12.0 min @Temperature 210 °C	12.0 min @Temperature 410 °F	
	30.0 min @Temperature 180 °C	30.0 min @Temperature 356 °F	
	95.0 min @Temperature 140 °C	95.0 min @Temperature 284 °F	
	>= 240 min @Temperature 120 °C	>= 240 min @Temperature 248 °F	
Shelf Life	9.00 Month @Temperature -18.0 °C	9.00 Month @Temperature -0.400 °F	

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