

Resinoid 2016 Phenolic Molding, Fabric Reinforced

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Phenolic , Phenolic, Novolac, Fabric Filled

Material Notes:

Data provided by the manufacturer. The Resinoid 2000 organic fiber reinforced series compounds feature mechanical strength, dimensional stability, and shock resistance

Order this product through the following link:

http://www.lookpolymers.com/polymer_Resinoid-2016-Phenolic-Molding-Fabric-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	ASTM D792A
Water Absorption	0.80 %	0.80 %	24 hours R.T. ASTM D570
Linear Mold Shrinkage	0.0025 cm/cm	0.0025 in/in	Positive Mold; ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	76	76	ASTM D785
Hardness, Rockwell M	108	108	ASTM D785
Tensile Strength, Ultimate	58.0 MPa	8410 psi	ASTM D651
Flexural Strength	83.0 MPa	12000 psi	ASTM D790
Compressive Strength	169 MPa	24500 psi	ASTM D695
Izod Impact, Notched	1.261 J/cm	2.362 ft-lb/in	ASTM D256A

Thermal Properties	Metric	English	Comments
CTE, linear	40.0 µm/m-°C	22.2 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Maximum Service Temperature, Air	150 °C	302 °F	UL RTI
Deflection Temperature at 1.8 MPa (264 psi)	238 °C	460 °F	ASTM D648
UL RTI, Electrical	150 °C	302 °F	
UL RTI, Mechanical with Impact	150 °C	302 °F	
UL RTI, Mechanical without Impact	150 °C	302 °F	
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Dielectric Strength	9.60 kV/mm	244 kV/in	Short Time; Dry; ASTM D149
Arc Resistance	115 sec	115 sec	ASTM D495
Comparative Tracking Index	175 - 250 V	175 - 250 V	UL PLC 4 (100-175 V)
	@Thickness 3.05 mm	@Thickness 0.120 in	
Hot Wire Ignition, HWI	>= 0.00 sec	>= 0.00 sec	UL PLC 0
	@Thickness 3.05 mm	@Thickness 0.120 in	
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	UL PLC 0
	@Thickness 3.05 mm	@Thickness 0.120 in	
High Voltage Arc-Tracking Rate, HVTR	81.0 - 150 mm/min	3.19 - 5.91 in/min	UL PLC 3 (81-150 mm/min)
	@Thickness 3.05 mm	@Thickness 0.120 in	

Processing Properties	Metric	English	Comments
Mold Temperature	150 - 175 °C	302 - 347 °F	

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