

Resinoid 2010 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-2010-Phenolic-Molding-Fabric-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in ³	ASTM D792A
Water Absorption	1.1 %	1.1 %	24 hours R.T. ASTM D570
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	Positive Mold; ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	86	86	ASTM D785
Hardness, Rockwell M	112	112	ASTM D785
Tensile Strength, Ultimate	41.0 MPa	5950 psi	ASTM D651
Flexural Strength	69.0 MPa	10000 psi	ASTM D790
Flexural Modulus	11.0 GPa	1600 ksi	ASTM D790
Compressive Strength	145 MPa	21000 psi	ASTM D695
Izod Impact, Notched	0.683 J/cm	1.28 ft-lb/in	ASTM D256A

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	150 °C	302 °F	UL RTI
Deflection Temperature at 1.8 MPa (264 psi)	121 °C	250 °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	

Electrical Properties	Metric	English	Comments
Dielectric Strength	10.0 kV/mm	254 kV/in	Short Time; Dry; ASTM D149
	175 - 250 V	175 - 250 V	

Comparative Tracking Index Electrical Properties	Metric @ Thickness 3.05 mm	English @ Thickness 0.120 in	UL PLC 4 (100-175 V) Comments
Hot Wire Ignition, HWI	60 - 120 sec @Thickness 3.05 mm	60 - 120 sec @Thickness 0.120 in	UL PLC 1; UL PLC 1
High Amp Arc Ignition, HAI	>= 120 arcs @Thickness 3.05 mm	>= 120 arcs @Thickness 0.120 in	UL PLC 0; UL PLC 0
High Voltage Arc-Tracking Rate, HVTR	>= 150 mm/min @Thickness 3.05 mm	>= 5.91 in/min @Thickness 0.120 in	UL PLC 4 (150+ mm/min)

Processing Properties	Metric	English	Comments
Mold Temperature	155 - 180 °C	311 - 356 °F	

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