

Resinoid 1322 Phenolic Molding, Glass Reinforced

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

Material Notes:

Data provided by the manufacturer. The Resinoid 1300 and 7000 glass fiber reinforced series compounds feature mechanical strength, dimensional stability, electrical insulation, and heat resistance

Order this product through the following link:

http://www.lookpolymers.com/polymer_Resinoid-1322-Phenolic-Molding-Glass-Reinforced.php

Physical Properties	Metric	English	Comments
Density	2.00 g/cc	0.0723 lb/in ³	ASTM D792A
Water Absorption	0.10 %	0.10 %	24 hours R.T. ASTM D570
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	Positive Mold; ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	64.0 MPa	9280 psi	ASTM D651
Flexural Strength	88.0 MPa	12800 psi	ASTM D790
Flexural Modulus	15.0 GPa	2180 ksi	ASTM D790
Compressive Strength	176 MPa	25500 psi	ASTM D695
Izod Impact, Notched	0.473 J/cm	0.886 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)	288 °C	550 °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	9.40 kV/mm	239 kV/in	Short Time; Dry; ASTM D149
Arc Resistance	190 sec	190 sec	ASTM D495
	175 - 250 V	175 - 250 V	

Comparative Tracking Index Electrical Properties	Metric @ Thickness 3.05 mm	English @ Thickness 0.120 in	UL PLC 3 (175-250 V) Comments
Hot Wire Ignition, HWI	60 - 120 sec @Thickness 3.05 mm	60 - 120 sec @Thickness 0.120 in	UL PLC 1
High Amp Arc Ignition, HAI	>= 120 arcs @Thickness 3.05 mm	>= 120 arcs @Thickness 0.120 in	UL PLC 0
High Voltage Arc-Tracking Rate, HVTR	0.000 - 10.0 mm/min @Thickness 3.05 mm	0.000 - 0.394 in/min @Thickness 0.120 in	UL PLC 0 (0-10 mm/min)

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

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