

Resinoid 7201 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-7201-Phenolic-Molding-Glass-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.60 g/cc	0.0578 lb/in ³	ASTM D792A
Water Absorption	0.20 %	0.20 %	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
Flexural Strength	85.0 MPa	12300 psi	ASTM D790
Flexural Modulus	8.90 GPa	1290 ksi	ASTM D790
Compressive Strength	110 MPa	16000 psi	ASTM D695
Izod Impact, Notched	0.341 J/cm	0.639 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)	275 °C	527 °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	12.8 kV/mm	325 kV/in	Short Time; Dry; ASTM D149
Arc Resistance	130 sec	130 sec	ASTM D495
Comparative Tracking Index	175 - 250 V @Thickness 3.05 mm	175 - 250 V @Thickness 0.120 in	UL PLC 3 (175-250 V)
	>= 0.00 sec	>= 0.00 sec	

Hot Wire Ignition, HWI Electrical Properties	Metric @ Thickness 3.05 mm	English @ Thickness 0.120 in	UL PLC 0 Comments
High Amp Arc Ignition, HAI	15 - 29 arcs @Thickness 6.10 mm	15 - 29 arcs @Thickness 0.240 in	UL PLC 3, 15-29 arcs
High Voltage Arc-Tracking Rate, HVTR	0.000 - 10.0 mm/min @Thickness 6.10 mm	0.000 - 0.394 in/min @Thickness 0.240 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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