

Resinoid 7051 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-7051-Phenolic-Molding-Glass-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.75 g/cc	0.0632 lb/in ³	ASTM D792A
Water Absorption	0.10 %	0.10 %	24 hours R.T. ASTM D570
Linear Mold Shrinkage	0.0015 cm/cm	0.0015 in/in	Positive Mold; ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	100	100	ASTM D785
Hardness, Rockwell M	120	120	ASTM D785
Tensile Strength, Ultimate	65.0 MPa	9430 psi	ASTM D651
Flexural Strength	165 MPa	23900 psi	ASTM D790
Flexural Modulus	17.0 GPa	2470 ksi	ASTM D790
Compressive Strength	276 MPa	40000 psi	ASTM D695
Izod Impact, Notched	0.473 J/cm	0.886 ft-lb/in	ASTM D256A

Thermal Properties	Metric	English	Comments
CTE, linear	38.0 $\mu\text{m/m-}^{\circ}\text{C}$	21.1 $\mu\text{in/in-}^{\circ}\text{F}$	ASTM D696
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Maximum Service Temperature, Air	150 $^{\circ}\text{C}$	302 $^{\circ}\text{F}$	UL RTI
Deflection Temperature at 1.8 MPa (264 psi)	270 $^{\circ}\text{C}$	518 $^{\circ}\text{F}$	ASTM D648
UL RTI, Electrical	150 $^{\circ}\text{C}$	302 $^{\circ}\text{F}$	
UL RTI, Mechanical with Impact	150 $^{\circ}\text{C}$	302 $^{\circ}\text{F}$	
UL RTI, Mechanical without Impact	150 $^{\circ}\text{C}$	302 $^{\circ}\text{F}$	

Electrical Properties	Metric	English	Comments
Dielectric Strength	14.6 kV/mm	371 kV/in	Short Time; Dry; ASTM D149
Arc Resistance	180 sec	180 sec	ASTM D495
Comparative Tracking Index	175 - 250 V	175 - 250 V	UL PLC 3 (175-250 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	15 - 29 arcs	15 - 29 arcs	UL PLC 3, 15-29 arcs
	@Thickness 3.05 mm	@Thickness 0.120 in	
High Voltage Arc-Tracking Rate, HVTR	0.000 - 10.0 mm/min	0.000 - 0.394 in/min	UL PLC 0 (0-10 mm/min)
	@Thickness 3.05 mm	@Thickness 0.120 in	

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

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