

Industrial Laminates/Norplex MC511A Glass Fabric

Category : Polymer , Thermoset

Material Notes:

Description: MC511A is a high strength, glass epoxy laminate that is specially formulated to meet power generation producer's exacting standards where higher strength at elevated temperatures are required. MC511A complies with MIL-I-24768/3 "GEB". Thickness Tested: 0.062", 0.125" & 0.500"

Order this product through the following link:

http://www.lookpolymers.com/polymer_Industrial-LaminatesNorplex-MC511A-Glass-Fabric.php

Physical Properties	Metric	English	Comments
Density	1.91 g/cc	0.0690 lb/in ³	
Moisture Absorption at Equilibrium	0.10 % @Thickness 3.17 mm	0.10 % @Thickness 0.125 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	105 - 125 @Thickness 1.57 mm	105 - 125 @Thickness 0.0620 in	
Flexural Strength	255 MPa	37000 psi	at Elevated Temperature (LW E-1/150, T-150)
	421 MPa @Thickness 3.17 mm	61000 psi @Thickness 0.125 in	CW
	493 MPa @Thickness 3.17 mm	71500 psi @Thickness 0.125 in	LW
Izod Impact, Unnotched	5.87 J/cm @Thickness 12.7 mm	11.0 ft-lb/in @Thickness 0.500 in	LW, Cond E-48/50

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	180 Â°C	356 Â°F	Tg
UL RTI, Electrical	170 Â°C	338 Â°F	
UL RTI, Mechanical without Impact	180 Â°C	356 Â°F	
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	5.00e+10 ohm-cm	5.00e+10 ohm-cm	

Electrical Properties	Metric 10 ohm	English 0 ohm	Comments
Dielectric Constant	4.5 @Thickness 1.57 mm	4.5 @Thickness 0.0620 in	Permittivity
Dielectric Breakdown	65000 V	65000 V	
Dissipation Factor	0.028 @Thickness 1.57 mm	0.028 @Thickness 0.0620 in	
Arc Resistance	185 sec	185 sec	ASTM D495

Descriptive Properties	Value	Comments
Bond Strength	2,200 lb	0.5"

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