

Industrial Laminates/Norplex MC507U Glass Fabric

Category : Polymer , Thermoset

Material Notes:

Description: MC507U is a utility grade, glass fabric/silicone resin binder composite product that can be substituted for NEMA G-7, in most heating, appliance insulation and some bearing applications. MC507U has excellent strength and electrical properties. MC507U complies with MIL-I-24768/17 "GSG, with the exception of specific electrical properties. Thickness Tested: 0.500"

Order this product through the following link:

http://www.lookpolymers.com/polymer_Industrial-LaminatesNorplex-MC507U-Glass-Fabric.php

Physical Properties	Metric	English	Comments
Density	1.88 g/cc	0.0680 lb/in ³	
Moisture Absorption at Equilibrium	0.040 % @Thickness 3.17 mm	0.040 % @Thickness 0.125 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	95 - 115 @Thickness 3.17 mm	95 - 115 @Thickness 0.125 in	
Tensile Strength, Yield	138 MPa @Thickness 3.17 mm	20000 psi @Thickness 0.125 in	LW
Flexural Strength	207 MPa @Thickness 3.17 mm	30000 psi @Thickness 0.125 in	LW
Compressive Strength	345 MPa @Thickness 3.17 mm	50000 psi @Thickness 0.125 in	Flatwise
Izod Impact, Unnotched	10.1 J/cm @Thickness 3.17 mm	19.0 ft-lb/in @Thickness 0.125 in	LW, Cond E-48/50

Thermal Properties	Metric	English	Comments
Decomposition Temperature	>= 275 Â°C	>= 527 Â°F	Degradation Temperature
UL RTI, Electrical	170 Â°C	338 Â°F	
UL RTI, Mechanical without Impact	220 Â°C	428 Â°F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	4.00e+8 ohm-cm	4.00e+8 ohm-cm	

Electrical Properties	@Thickness 3.17 mm Metric	@Thickness 0.125 in English	Comments
Surface Resistance	5.00e+8 ohm @Thickness 3.17 mm	5.00e+8 ohm @Thickness 0.125 in	
Dielectric Constant	4.5 @Thickness 3.17 mm	4.5 @Thickness 0.125 in	Permittivity
Dielectric Strength	13.8 kV/mm	350 kV/in	Perpendicular - Short Time
Dielectric Breakdown	45000 V @Thickness 3.17 mm	45000 V @Thickness 0.125 in	
Dissipation Factor	0.0035 @Thickness 3.17 mm	0.0035 @Thickness 0.125 in	
Arc Resistance	240 sec @Thickness 3.17 mm	240 sec @Thickness 0.125 in	ASTM D495

Descriptive Properties	Value	Comments
Bond Strength	900 lb	0.5"

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