

Industrial Laminates/Norplex MC514MG Glass Fabric

Category : Polymer , Thermoset , Phenolic

Material Notes:

Description: MC514MG is made with a woven glass fabric in combination with high temperature, conductive, phenolic resin system. NP514MG has excellent flexural, compressive and impact strengths at room temperature and elevated temperatures. It was developed for the motor generator industry to provide conductive coupling to eliminate static discharges caused by corona. It is capable of continuous operation exceeding 300°C. NP514MG has excellent creep resistance because of the phenolic resin system. Thickness Tested: 0.062", 0.125", and 0.500"

Order this product through the following link:

http://www.lookpolymers.com/polymer_Industrial-LaminatesNorplex-MC514MG-Glass-Fabric.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.85 g/cc	1.85 g/cc	
Moisture Absorption at Equilibrium	0.70 % @Thickness 1.57 mm	0.70 % @Thickness 0.0620 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	105 - 125 @Thickness 1.57 mm	105 - 125 @Thickness 0.0620 in	
Tensile Strength, Yield	255 MPa @Thickness 3.17 mm	37000 psi @Thickness 0.125 in	CW
	317 MPa @Thickness 3.17 mm	46000 psi @Thickness 0.125 in	LW
Flexural Strength	379 MPa @Thickness 1.57 mm	55000 psi @Thickness 0.0620 in	CW
	441 MPa @Thickness 1.57 mm	64000 psi @Thickness 0.0620 in	LW
Flexural Modulus	25.5 GPa @Thickness 1.57 mm	3700 ksi @Thickness 0.0620 in	CW
	27.6 GPa @Thickness 1.57 mm	4000 ksi @Thickness 0.0620 in	LW
Compressive Strength	455 MPa @Thickness 12.7 mm	66000 psi @Thickness 0.500 in	Flatwise

Mechanical Properties	172 MPa Metric	25000 psi English	Comments
	@Thickness 1.57 mm	@Thickness 0.0620 in	
Izod Impact, Notched	5.87 J/cm	11.0 ft-lb/in	CW, E-48/50
	@Thickness 12.7 mm	@Thickness 0.500 in	
	6.94 J/cm	13.0 ft-lb/in	LW, E-48/50
	@Thickness 12.7 mm	@Thickness 0.500 in	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	300 Â°C	572 Â°F	
Decomposition Temperature	>= 385 Â°C	>= 725 Â°F	Degradation Temperature
Flammability, UL94	HB	HB	

Descriptive Properties	Value	Comments
Bond Strength	1,600 lb	0.5"
Conductivity Range Surface	10 ⁴ ohm/Square	Preliminary
Glass Transition Temperature	None	

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