

Industrial Laminates/Norplex MC320LE Cotton Fabric

Category : Polymer , Thermoset , Phenolic

Material Notes:

Description: Grade MC320LE is a fine weave bleached cotton phenolic composite that has excellent machining characteristics and low moisture absorption. Applications include marine applications, terminal boards and parts requiring medium strength and excellent electrical characteristics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Industrial-LaminatesNorplex-MC320LE-Cotton-Fabric.php

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0500 lb/in ³	
Moisture Absorption at Equilibrium	0.87 % @Thickness 3.17 mm	0.87 % @Thickness 0.125 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	92 - 112 @Thickness 3.17 mm	92 - 112 @Thickness 0.125 in	
Tensile Strength, Yield	130 MPa @Thickness 3.17 mm	18800 psi @Thickness 0.125 in	LW
Flexural Strength	165 MPa @Thickness 3.17 mm	24000 psi @Thickness 0.125 in	LW
Compressive Strength	262 MPa @Thickness 3.17 mm	38000 psi @Thickness 0.125 in	Flatwise
Shear Strength	96.5 MPa @Thickness 3.17 mm	14000 psi @Thickness 0.125 in	
Izod Impact, Unnotched	0.801 J/cm @Thickness 3.17 mm	1.50 ft-lb/in @Thickness 0.125 in	E-48/50

Thermal Properties	Metric	English	Comments
UL RTI, Electrical	115 Å°C	239 Å°F	
UL RTI, Mechanical without Impact	125 Å°C	257 Å°F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	7.20e+10 ohm-cm	7.20e+10 ohm-cm	

Electrical Properties	Metric	English	Comments
Surface Resistance	9.10e+10 ohm	9.10e+10 ohm	
Dielectric Constant	5.3	5.3	Permittivity; Condition A (1 mHz)
Dielectric Breakdown	70000 V	70000 V	
Dissipation Factor	0.044	0.044	Condition A
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Arc Resistance	130 sec	130 sec	ASTM D495

Descriptive Properties	Value	Comments
Bond Strength	1,700 lb	0.5"

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