

## Industrial Laminates/Norplex MC223 Cotton Fabric

Category : Polymer , Thermoset , Phenolic

### Material Notes:

Description: Grade MC223 is a medium weave cotton phenolic composite that is specifically formulated to meet MIL-P-18324. Typical applications include pintle and stave-type bearings for rudder shafts in the marine industry. This material is known industry wide as "Marine Micarta." Grade 238 complies with MIL-P-18324.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Industrial-LaminatesNorplex-MC223-Cotton-Fabric.php](http://www.lookpolymers.com/polymer_Industrial-LaminatesNorplex-MC223-Cotton-Fabric.php)

Physical Properties	Metric	English	Comments
Density	1.44 g/cc	0.0520 lb/in <sup>3</sup>	
Moisture Absorption at Equilibrium	1.2 % @Thickness 3.17 mm	1.2 % @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	82.7 MPa @Thickness 3.17 mm	12000 psi @Thickness 0.125 in	LW
Flexural Strength	124 MPa @Thickness 3.17 mm	18000 psi @Thickness 0.125 in	LW
Compressive Strength	262 MPa @Thickness 3.17 mm	38000 psi @Thickness 0.125 in	Flatwise
Shear Strength	89.6 MPa @Thickness 3.17 mm	13000 psi @Thickness 0.125 in	
Izod Impact, Unnotched	0.854 J/cm @Thickness 3.17 mm	1.60 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
Dielectric Strength	7.87 kV/mm	200 kV/in	Perpendicular (Short Time)

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

## Contact Songhan Plastic Technology Co.,Ltd.

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