

Industrial Laminates/Norplex NP841 Glass Fabric (discontinued **)

Category : Polymer , Thermoset , Phenolic

Material Notes:

Description: Woven glass fabric with phenolic resin. Contains Kocite® for controlled conductivity. Acts as static electricity drain to protect electrical and electronic equipment. Thickness Tested: 0.062", 0.125" & 0.500"

Order this product through the following link:

http://www.lookpolymers.com/polymer_Industrial-LaminatesNorplex-NP841-Glass-Fabric-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.85 g/cc	1.85 g/cc	
Moisture Absorption at Equilibrium	0.40 % @Thickness 1.57 mm	0.40 % @Thickness 0.0620 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	100 - 120 @Thickness 1.57 mm	100 - 120 @Thickness 0.0620 in	
Tensile Strength, Yield	234 MPa @Thickness 3.17 mm	34000 psi @Thickness 0.125 in	CW
	290 MPa @Thickness 3.17 mm	42000 psi @Thickness 0.125 in	LW
Flexural Strength	276 MPa @Thickness 1.57 mm	40000 psi @Thickness 0.0620 in	CW
	345 MPa @Thickness 1.57 mm	50000 psi @Thickness 0.0620 in	LW
Flexural Modulus	9.65 GPa @Thickness 1.57 mm	1400 ksi @Thickness 0.0620 in	CW
	11.0 GPa @Thickness 1.57 mm	1600 ksi @Thickness 0.0620 in	LW
Compressive Strength	414 MPa @Thickness 12.7 mm	60000 psi @Thickness 0.500 in	Flatwise
Shear Strength	131 MPa @Thickness 1.57 mm	19000 psi @Thickness 0.0620 in	Perpendicular
	4.27 J/cm	8.00 ft-lb/in	

Impact Properties	Metric	English	Comments
Impact, Unnotched	@Thickness 12.7 mm	@Thickness 0.500 in	CW, E-48/50
Mechanical Properties	5.87 J/cm	11.0 ft-lb/in	LW, E-48/50
	@Thickness 12.7 mm	@Thickness 0.500 in	

Thermal Properties	Metric	English	Comments
CTE, linear	15.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	8.33 $\mu\text{in}/\text{in}\cdot\text{°F}$	x-axis
	@Thickness 1.57 mm, Temperature 20.0 °C	@Thickness 0.0620 in, Temperature 68.0 °F	
CTE, linear, Transverse to Flow	18.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	10.0 $\mu\text{in}/\text{in}\cdot\text{°F}$	x-axis
	@Thickness 1.57 mm, Temperature 20.0 °C	@Thickness 0.0620 in, Temperature 68.0 °F	
Maximum Service Temperature, Air	175 °C	347 °F	Maximum Operating Temperature
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Surface Resistivity per Square	10000 - 20000 ohm	10000 - 20000 ohm	Condition A
	@Thickness 1.57 mm	@Thickness 0.0620 in	

Descriptive Properties	Value	Comments
Bond Strength	1,600 lb	0.5"

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