

Industrial Laminates/Norplex NP325 Cotton Fabric

Category : Polymer , Thermoset , Phenolic

Material Notes:

Description: Linen phenolic laminate with graphite added as a solid lubricant. Linen substrate provides better machining and wear resistance than NP315. Thickness Tested: 0.062", 0.125" and 0.500".

Order this product through the following link:

http://www.lookpolymers.com/polymer_Industrial-LaminatesNorplex-NP325-Cotton-Fabric.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.35 - 1.45 g/cc	1.35 - 1.45 g/cc	ASTM D792
	@Thickness 1.57 mm	@Thickness 0.0620 in	
Moisture Absorption at Equilibrium	1.5 %	1.5 %	ASTM D229
	@Thickness 1.57 mm	@Thickness 0.0620 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	90 - 110	90 - 110	ASTM D785
	@Thickness 1.57 mm	@Thickness 0.0620 in	
Tensile Strength, Yield	65.5 MPa	9500 psi	CW; ASTM D638
	@Thickness 1.57 mm	@Thickness 0.0620 in	
	93.1 MPa	13500 psi	LW; ASTM D638
	@Thickness 1.57 mm	@Thickness 0.0620 in	
Modulus of Elasticity	7.58 GPa	1100 ksi	CW; ASTM D229
	@Thickness 1.57 mm	@Thickness 0.0620 in	
	10.3 GPa	1500 ksi	LW; ASTM D229
	@Thickness 1.57 mm	@Thickness 0.0620 in	
Flexural Strength	132 MPa	19200 psi	CW; ASTM D790
	@Thickness 1.57 mm	@Thickness 0.0620 in	
	139 MPa	20100 psi	LW; ASTM D790
	@Thickness 1.57 mm	@Thickness 0.0620 in	
Compressive Strength	241 MPa	35000 psi	ASTM D695
	@Thickness 12.7 mm	@Thickness 0.500 in	
Shear Strength	100 MPa	14500 psi	ASTM D732
	@Thickness 15.7 mm	@Thickness 0.620 in	

Mechanical Properties	Metric J/cm	English lb/in	Comments
Izod Impact, Unnotched	@Thickness 12.7 mm	@Thickness 0.500 in	CW, Cond E-48/50; ASTM D256
	0.758 J/cm	1.42 ft-lb/in	LW, Cond E-48/50; ASTM D256
	@Thickness 12.7 mm	@Thickness 0.500 in	

Thermal Properties	Metric	English	Comments
CTE, linear	10.0 $\mu m/m-^{\circ}C$	5.56 $\mu in/in-^{\circ}F$	x-axis; IPC-TM 650-2.4.24
	@Thickness 1.57 mm, Temperature 20.0 $^{\circ}C$	@Thickness 0.0620 in, Temperature 68.0 $^{\circ}F$	
CTE, linear, Transverse to Flow	12.0 $\mu m/m-^{\circ}C$	6.67 $\mu in/in-^{\circ}F$	x-axis; IPC-TM 650-2.4.24
	@Thickness 1.57 mm, Temperature 20.0 $^{\circ}C$	@Thickness 0.0620 in, Temperature 68.0 $^{\circ}F$	
Maximum Service Temperature, Air	125 $^{\circ}C$	257 $^{\circ}F$	
Flammability, UL94	HB	HB	
	@Thickness 1.57 mm	@Thickness 0.0620 in	

Descriptive Properties	Value	Comments
Bond Strength	1900 lb	0.5", ASTM D229
Color	Natural	

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