

Industrial Laminates/Norplex NP313 Cotton Fabric

Category : Polymer , Thermoset , Phenolic

Material Notes:

Description: Canvas phenolic laminate with molybdenum disulfide lubricant. Mechanical properties slightly lower than NP310.Thickness

Tested: 0.062", 0.125" & 0.500"

Order this product through the following link:

http://www.lookpolymers.com/polymer_Industrial-LaminatesNorplex-NP313-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	1.95 %	1.95 %	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	62.1 MPa	9000 psi	CW; ASTM D638
	@Thickness 1.57 mm	@Thickness 0.0620 in	
	75.8 MPa	11000 psi	LW; ASTM D638
	@Thickness 1.57 mm	@Thickness 0.0620 in	
Modulus of Elasticity	6.89 GPa	1000 ksi	CW; ASTM D229
	@Thickness 1.57 mm	@Thickness 0.0620 in	
	8.27 GPa	1200 ksi	LW; ASTM D229
	@Thickness 1.57 mm	@Thickness 0.0620 in	
Flexural Strength	117 MPa	17000 psi	CW; ASTM D790
	@Thickness 1.57 mm	@Thickness 0.0620 in	
	131 MPa	19000 psi	LW; ASTM D790
	@Thickness 1.57 mm	@Thickness 0.0620 in	
Compressive Strength	248 MPa	36000 psi	ASTM D695
	@Thickness 12.7 mm	@Thickness 0.500 in	
Shear Strength	93.1 MPa	13500 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
	0.908 J/cm	1.70 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	18.0 $\mu m/m-^{\circ}C$	10.0 $\mu in/in-^{\circ}F$	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	24.0 $\mu m/m-^{\circ}C$	13.3 $\mu in/in-^{\circ}F$	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	145 $^{\circ}C$	293 $^{\circ}F$	
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	Black	

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