

Industrial Laminates/Norplex NP329 Cotton Fabric

Category : Polymer , Thermoset

Material Notes:

Description: Bleached linen with melamine resin system. Provides better arc resistance than NP320E. Also, resistant to ammonia based refrigerants. Hard, durable material should be heated to punch, but machines very well with standard machining equipment. Meets UL94, V-0. Thickness Tested: 0.062", 0.125" & 0.500".

Order this product through the following link:

http://www.lookpolymers.com/polymer_Industrial-LaminatesNorplex-NP329-Cotton-Fabric.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.45 - 1.50 g/cc	1.45 - 1.50 g/cc	ASTM D792
	@Thickness 1.57 mm	@Thickness 0.0620 in	
Moisture Absorption at Equilibrium	1.8 %	1.8 %	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	66.9 MPa	9700 psi	CW; ASTM D638
	@Thickness 1.57 mm	@Thickness 0.0620 in	
	110 MPa	16000 psi	LW; ASTM D638
	@Thickness 1.57 mm	@Thickness 0.0620 in	
Modulus of Elasticity	9.65 GPa	1400 ksi	CW; ASTM D229
	@Thickness 1.57 mm	@Thickness 0.0620 in	
	12.4 GPa	1800 ksi	LW; ASTM D229
	@Thickness 1.57 mm	@Thickness 0.0620 in	
Flexural Strength	179 MPa	26000 psi	CW; ASTM D790
	@Thickness 1.57 mm	@Thickness 0.0620 in	
	200 MPa	29000 psi	LW; ASTM D790
	@Thickness 1.57 mm	@Thickness 0.0620 in	
Compressive Strength	234 MPa	34000 psi	ASTM D695
	@Thickness 12.7 mm	@Thickness 0.500 in	
	89.6 MPa	13000 psi	

Shear Strength Mechanical Properties	Metric @Thickness 15.7 mm	English @Thickness 0.620 in	ASTM D732 Comments
Izod Impact, Unnotched	0.934 J/cm @Thickness 12.7 mm	1.75 ft-lb/in @Thickness 0.500 in	CW, Cond E-48/50; ASTM D256
	1.01 J/cm @Thickness 12.7 mm	1.90 ft-lb/in @Thickness 0.500 in	LW, Cond E-48/50; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	18.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Thickness 1.57 mm, Temperature 20.0 $\text{Å}^\circ\text{C}$	10.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Thickness 0.0620 in, Temperature 68.0 $\text{Å}^\circ\text{F}$	x-axis; IPC-TM 650-2.4.24
CTE, linear, Transverse to Flow	19.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Thickness 1.57 mm, Temperature 20.0 $\text{Å}^\circ\text{C}$	10.6 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Thickness 0.0620 in, Temperature 68.0 $\text{Å}^\circ\text{F}$	x-axis; IPC-TM 650-2.4.24
Maximum Service Temperature, Air	130 $\text{Å}^\circ\text{C}$	266 $\text{Å}^\circ\text{F}$	
Flammability, UL94	V-0 @Thickness 1.57 mm	V-0 @Thickness 0.0620 in	

Electrical Properties	Metric	English	Comments
Dielectric Constant	7.0 @Thickness 1.57 mm	7.0 @Thickness 0.0620 in	Permittivity, Cond D-24/23; ASTM D150
Dielectric Strength	11.8 kV/mm @Thickness 1.57 mm	300 kV/in @Thickness 0.0620 in	Cond D-48/50; ASTM D229 S.T.
	19.7 kV/mm @Thickness 1.57 mm	500 kV/in @Thickness 0.0620 in	Cond A; ASTM D229 S.T.
Dielectric Breakdown	5000 V @Thickness 1.57 mm	5000 V @Thickness 0.0620 in	Cond D-48/50; ASTM D229 S/S
	20000 V @Thickness 1.57 mm	20000 V @Thickness 0.0620 in	Cond A; ASTM D229 S/S
Dissipation Factor	0.050 @Thickness 1.57 mm	0.050 @Thickness 0.0620 in	Cond D-24/23; ASTM D150
Arc Resistance	120 sec @Thickness 3.17 mm	120 sec @Thickness 0.125 in	ASTM D495
	200 V	200 V	

Comparative Tracking Index		ASTM D3638	
Electrical Properties	Metric @ Thickness 3.17 mm	English @ Thickness 0.125 in	Comments
Descriptive Properties		Value	Comments
Bond Strength		1900 lb	0.5", ASTM D229
Color		Natural	

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