

Industrial Laminates/Norplex NP315 Cotton Fabric

Category : Polymer , Thermoset , Phenolic

Material Notes:

Description: Canvas phenolic laminate with graphite added as a solid lubricant. This material has improved wear properties under certain conditions. Material is conductive to electricity and should no be used where this is detrimental to the application. Thickness Tested: 0.062", 0.125", and 0.500"

Order this product through the following link:

http://www.lookpolymers.com/polymer_Industrial-LaminatesNorplex-NP315-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	2.2 %	2.2 %	ASTM D229
	@Thickness 1.57 mm	@Thickness 0.0620 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	80 - 100	80 - 100	ASTM D785
	@Thickness 1.57 mm	@Thickness 0.0620 in	
Tensile Strength, Yield	48.3 MPa	7000 psi	CW; ASTM D638
	@Thickness 1.57 mm	@Thickness 0.0620 in	
Modulus of Elasticity	68.9 MPa	10000 psi	LW; ASTM D638
	@Thickness 1.57 mm	@Thickness 0.0620 in	
Flexural Strength	6.89 GPa	1000 ksi	CW; ASTM D229
	@Thickness 1.57 mm	@Thickness 0.0620 in	
Compressive Strength	8.27 GPa	1200 ksi	LW; ASTM D229
	@Thickness 1.57 mm	@Thickness 0.0620 in	
Flexural Strength	103 MPa	15000 psi	CW; ASTM D790
	@Thickness 1.57 mm	@Thickness 0.0620 in	
Compressive Strength	131 MPa	19000 psi	LW; ASTM D790
	@Thickness 1.57 mm	@Thickness 0.0620 in	
Compressive Strength	262 MPa	38000 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	0.747 J/cm @Thickness 12.7 mm	1.40 ft-lb/in @Thickness 0.500 in	CW, Cond E-48/50; ASTM D256
	0.908 J/cm @Thickness 12.7 mm	1.70 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	24.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Thickness 1.57 mm, Temperature 20.0 $\text{Å}^\circ\text{C}$	13.3 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Thickness 0.0620 in, Temperature 68.0 $\text{Å}^\circ\text{F}$	x-axis; IPC-TM 650-2.4.24
Maximum Service Temperature, Air	145 $\text{Å}^\circ\text{C}$	293 $\text{Å}^\circ\text{F}$	
Flammability, UL94	HB @Thickness 1.57 mm	HB @Thickness 0.0620 in	

Descriptive Properties	Value	Comments
Bond Strength	1800 lb	0.5", ASTM D229
Color	Natural, Black	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China