

## Industrial Laminates/Norplex NP318 Cotton Fabric

Category : Polymer , Thermoset , Phenolic

### Material Notes:

Description: Post-forming canvas phenolic material. Mechanical and electrical properties similar to NP310E. It is made from a cotton fabric weighing more than 4 ounces per square yard and having a thread count of not more than 70 threads per inch in both the warp and filler directions. The binder is a modified phenolic resin system, which permits the material to be heated, formed into a shape and cooled under restraint to hold the newly formed shape. Thickness Tested: 0.062", 0.125", and 0.500".

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Industrial-LaminatesNorplex-NP318-Cotton-Fabric.php](http://www.lookpolymers.com/polymer_Industrial-LaminatesNorplex-NP318-Cotton-Fabric.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 - 1.40 g/cc	1.30 - 1.40 g/cc	ASTM D792
	@Thickness 1.57 mm	@Thickness 0.0620 in	
Moisture Absorption at Equilibrium	2.0 %	2.0 %	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	41.4 MPa	6000 psi	CW; ASTM D638
	@Thickness 1.57 mm	@Thickness 0.0620 in	
	68.9 MPa	10000 psi	LW; ASTM D638
	@Thickness 1.57 mm	@Thickness 0.0620 in	
Modulus of Elasticity	6.21 GPa	900 ksi	CW; ASTM D229
	@Thickness 1.57 mm	@Thickness 0.0620 in	
	7.58 GPa	1100 ksi	LW; ASTM D229
	@Thickness 1.57 mm	@Thickness 0.0620 in	
Flexural Strength	96.5 MPa	14000 psi	CW; ASTM D790
	@Thickness 1.57 mm	@Thickness 0.0620 in	
	117 MPa	17000 psi	LW; ASTM D790
	@Thickness 1.57 mm	@Thickness 0.0620 in	
Compressive Strength	172 MPa	25000 psi	ASTM D695
	@Thickness 12.7 mm	@Thickness 0.500 in	

Mechanical Properties	82.7 MPa Metric	12000 psi English	Comments
	@Thickness 15.7 mm	@Thickness 0.620 in	
Izod Impact, Unnotched	1.07 J/cm	2.00 ft-lb/in	CW, Cond E-48/50; ASTM D256
	@Thickness 12.7 mm	@Thickness 0.500 in	
	1.33 J/cm	2.50 ft-lb/in	LW, Cond E-48/50; ASTM D256
	@Thickness 12.7 mm	@Thickness 0.500 in	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	125 Â°C	257 Â°F	
Flammability, UL94	HB	HB	
	@Thickness 1.57 mm	@Thickness 0.0620 in	

Electrical Properties	Metric	English	Comments
Dielectric Strength	13.8 kV/mm	350 kV/in	Cond D-48/50; ASTM D229 S.T.
	@Thickness 1.57 mm	@Thickness 0.0620 in	
	18.9 kV/mm	480 kV/in	Cond A; ASTM D229 S.T.
	@Thickness 1.57 mm	@Thickness 0.0620 in	
Dielectric Breakdown	4000 V	4000 V	Cond D-48/50; ASTM D229 S/S
	@Thickness 1.57 mm	@Thickness 0.0620 in	
	65000 V	65000 V	Cond A; ASTM D229 S/S
	@Thickness 1.57 mm	@Thickness 0.0620 in	
Arc Resistance	10 sec	10 sec	ASTM D495
	@Thickness 3.17 mm	@Thickness 0.125 in	
Comparative Tracking Index	150 V	150 V	ASTM D3638
	@Thickness 3.17 mm	@Thickness 0.125 in	

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

## Contact Songhan Plastic Technology Co.,Ltd.

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