

Industrial Laminates/Norplex NP310HT Cotton Fabric

Category : Polymer , Thermoset

Material Notes:

Description: Canvas machining grade for structural and mechanical applications. Better impact strength than phenolic paper grades. MIL-I-24768/16. Designed to meet GE specification A19B15B1 Thickness Tested: 0.062", 0.125", and 0.500".

Order this product through the following link:

http://www.lookpolymers.com/polymer_Industrial-LaminatesNorplex-NP310HT-Cotton-Fabric.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.35 - 1.40 g/cc	1.35 - 1.40 g/cc	ASTM D792
	@Thickness 1.57 mm	@Thickness 0.0620 in	
Moisture Absorption at Equilibrium	3.4 %	3.4 %	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	
Modulus of Elasticity	16.5 GPa	2400 ksi	CW; ASTM D229
	@Thickness 1.57 mm	@Thickness 0.0620 in	
	17.2 GPa	2500 ksi	LW; ASTM D229
	@Thickness 1.57 mm	@Thickness 0.0620 in	
Flexural Strength	124 MPa	18000 psi	CW; ASTM D790
	@Thickness 1.57 mm	@Thickness 0.0620 in	
	124 MPa	18000 psi	LW; ASTM D790
	@Thickness 1.57 mm	@Thickness 0.0620 in	
Izod Impact, Unnotched	1.08 J/cm	2.02 ft-lb/in	CW, Cond E-48/50; ASTM D256
	@Thickness 12.7 mm	@Thickness 0.500 in	
	1.25 J/cm	2.35 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	

Thermal Properties	@Thickness 1.57 mm Metric	@Thickness 0.0620 in English	Comments
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Electrical Properties	Metric	English	Comments
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Dielectric Strength	20.7 kV/mm @Thickness 1.57 mm	527 kV/in @Thickness 0.0620 in	Cond A; ASTM D229 S.T.
Dielectric Breakdown	55000 V @Thickness 1.57 mm	55000 V @Thickness 0.0620 in	Cond A; ASTM D229 S/S

Descriptive Properties	Value	Comments
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Bond Strength	2700 lb	0.5", ASTM D229
Color	Natural	

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