Industrial Laminates/Norplex NP130 Glass Fabric

Category : Polymer , Thermoset

Material Notes:

Description: Woven glass fabric combined with a halogenated epoxy resin system. Produced to printed circuit board quality standards.

Flame retardant, meets UL-94 flammability classification V-0.Thickness Tested: 0.0620", 0.125" & 0.500".

Order this product through the following link:
http://www.lookpolymers.com/polymer_Industrial-LaminatesNorplex-NP130-Glass-Fabric.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.75 - 1.85 g/cc @Thickness 1.57 mm	1.75 - 1.85 g/cc @Thickness 0.0620 in	ASTM D792
Moisture Absorption at Equilibrium	0.15 % @Thickness 1.57 mm	0.15 % @Thickness 0.0620 in	ASTM D229

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	90 - 110 @Thickness 1.57 mm	90 - 110 @Thickness 0.0620 in	ASTM D785
Tensile Strength, Yield	262 MPa @Thickness 1.57 mm	38000 psi @Thickness 0.0620 in	CW; ASTM D638
	310 MPa @Thickness 1.57 mm	45000 psi @Thickness 0.0620 in	LW; ASTM D638
Modulus of Elasticity	16.5 GPa @Thickness 1.57 mm	2400 ksi @Thickness 0.0620 in	CW; ASTM D229
	18.6 GPa @Thickness 1.57 mm	2700 ksi @Thickness 0.0620 in	LW; ASTM D229
Flexural Strength	414 MPa @Thickness 1.57 mm	60000 psi @Thickness 0.0620 in	CW; ASTM D790
	483 MPa @Thickness 1.57 mm	70000 psi @Thickness 0.0620 in	LW; ASTM D790
Compressive Strength	379 MPa @Thickness 12.7 mm	55000 psi @Thickness 0.500 in	ASTM D695
Shear Strength	152 MPa @Thickness 15.7 mm	22000 psi @Thickness 0.620 in	ASTM D732

Mechanical Properties	Metric	English	Comments
Izod Impact, Unnotched	[illegible] J/cm @Thickness 12.7 mm	[illegible] ft-lb/in @Thickness 0.500 in	CW, Cond E-48/50; ASTM D256
	7.47 J/cm @Thickness 12.7 mm	14.0 ft-lb/in @Thickness 0.500 in	LW, Cond E-48/50; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	10.0 Âµm/m-Â°C @Thickness 1.57 mm, Temperature 20.0 Â°C	5.56 Âµin/in-Â°F @Thickness 0.0620 in, Temperature 68.0 Â°F	x-axis; IPC-TM 650-2.4.24
CTE, linear, Transverse to Flow	12.0 Âµm/m-Â°C @Thickness 1.57 mm, Temperature 20.0 Â°C	6.67 Âµin/in-Â°F @Thickness 0.0620 in, Temperature 68.0 Â°F	x-axis; IPC-TM 650-2.4.24
Maximum Service Temperature, Air	140 Â°C	284 Â°F	
Glass Transition Temp, Tg	127 Â°C	261 Â°F	Tg
Flammability, UL94	V-0 @Thickness 1.57 mm	V-0 @Thickness 0.0620 in	

Electrical Properties	Metric	English	Comments
Dielectric Constant	4.8 @Thickness 1.57 mm	4.8 @Thickness 0.0620 in	Permittivity, Cond D-24/23; ASTM D150
Dielectric Strength	29.5 kV/mm @Thickness 1.57 mm	750 kV/in @Thickness 0.0620 in	Cond D-48/50; ASTM D229 S.T.
	31.5 kV/mm @Thickness 1.57 mm	800 kV/in @Thickness 0.0620 in	Cond A; ASTM D229 S.T.
Dielectric Breakdown	54000 V @Thickness 1.57 mm	54000 V @Thickness 0.0620 in	Cond D-48/50; ASTM D229 S/S
	65000 V @Thickness 1.57 mm	65000 V @Thickness 0.0620 in	Cond A; ASTM D229 S/S
Dissipation Factor	0.025 @Thickness 1.57 mm	0.025 @Thickness 0.0620 in	Cond D-24/23; ASTM D150
Arc Resistance	100 sec @Thickness 3.17 mm	100 sec @Thickness 0.125 in	ASTM D495
	150 V	150 V	

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	@Thickness 3.17 mm	@Thickness 0.125 in	ASTM D3638

Descriptive Properties	Value	Comments
Bond Strength	2200 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