Industrial Laminates/Norplex NP193P Synthetic Fabric

Category : Polymer , Thermoset , Aramid , Phenolic

Material Notes:

Description: 17 oz. aramid and "soft glass" fibers are combined to make a fabric that is stronger than pure aramid and less abrasive than glass fabrics. This material is impregnated with a high temperature phenolic resin matrix, which produces a composite with excellent mechanical strength at elevated temperatures and adverse environments. Applications include wear plates for conveyor systems, valve plates, and compressor and pump vanes. Variations of this material may be developed for specific applications.Thickness Tested: 0.125", 0.250" & 0.500"

Order this product through the following link:
http://www.lookpolymers.com/polymer_Industrial-LaminatesNorplex-NP193P-Synthetic-Fabric.php

Physical Properties	Metric	English	Comments
Moisture Absorption at Equilibrium	3.69 % @Thickness 1.57 mm	3.69 % @Thickness 0.0620 in	ASTM D229

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	131 MPa @Thickness 1.57 mm	19000 psi @Thickness 0.0620 in	CW; ASTM D638
	159 MPa @Thickness 1.57 mm	23000 psi @Thickness 0.0620 in	LW; ASTM D638
Modulus of Elasticity	8.27 GPa @Thickness 1.57 mm	1200 ksi @Thickness 0.0620 in	CW; ASTM D229
	8.27 GPa @Thickness 1.57 mm	1200 ksi @Thickness 0.0620 in	LW; ASTM D229
Flexural Strength	103 MPa @Thickness 1.57 mm	15000 psi @Thickness 0.0620 in	CW; ASTM D790
	228 MPa @Thickness 1.57 mm	33000 psi @Thickness 0.0620 in	LW; ASTM D790
Compressive Strength	269 MPa @Thickness 12.7 mm	39000 psi @Thickness 0.500 in	ASTM D695
Izod Impact, Unnotched	3.74 J/cm @Thickness 12.7 mm	7.00 ft-lb/in @Thickness 0.500 in	CW, Cond E-48/50; ASTM D256
	12.8 J/cm	24.0 ft-lb/in	LW, Cond E-48/50; ASTM D256

Mechanical Properties	Metric	English	Comments
	@Thickness 12.7 mm	@Thickness 0.500 in	

Thermal Properties	Metric	English	Comments
CTE, linear	21.0 Âµm/m-Â°C @Thickness 1.57 mm, Temperature 20.0 Â°C	11.7 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	30.8 Âµm/m-Â°C @Thickness 1.57 mm, Temperature 20.0 Â°C	17.1 Âµin/in-Â°F @Thickness 0.0620 in, Temperature 68.0 Â°F	x-axis; IPC-TM 650-2.4.24
Flammability, UL94	HB @Thickness 1.57 mm	HB @Thickness 0.0620 in	

Electrical Properties	Metric	English	Comments
Dielectric Constant	5.0 @Thickness 1.57 mm	5.0 @Thickness 0.0620 in	Permittivity, Cond D-24/23; ASTM D150
Dissipation Factor	0.030 @Thickness 1.57 mm	0.030 @Thickness 0.0620 in	Cond D-24/23; ASTM D150

Descriptive Properties	Value	Comments
Bond Strength	2400 lb	0.5", ASTM D229
Color	Natural	

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