

Industrial Laminates/Norplex NP193M Synthetic Fabric Base Grade

Category : Polymer , Thermoset , Aramid

Material Notes:

Description: 17 oz. aramide and "soft glass" fibers are combined to make a fabric that is stronger than pure aramide and less abrasive than glass fabrics. This material is impregnated with a melamine resin matrix. Applications include compressor and pump vanes.

Variations of this material may be developed for specific applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Industrial-LaminatesNorplex-NP193M-Synthetic-Fabric-Base-Grade.php

Physical Properties	Metric	English	Comments
Moisture Absorption at Equilibrium	5.7 %	5.7 %	ASTM D229
	@Thickness 1.57 mm	@Thickness 0.0620 in	

Mechanical Properties	Metric	English	Comments
Modulus of Elasticity	8.27 GPa	1200 ksi	CW; ASTM D229
	@Thickness 1.57 mm	@Thickness 0.0620 in	
	8.27 GPa	1200 ksi	LW; ASTM D229
	@Thickness 1.57 mm	@Thickness 0.0620 in	
Flexural Strength	89.6 MPa	13000 psi	CW; ASTM D790
	@Thickness 1.57 mm	@Thickness 0.0620 in	
	234 MPa	34000 psi	LW; ASTM D790
	@Thickness 1.57 mm	@Thickness 0.0620 in	
Compressive Strength	290 MPa	42000 psi	ASTM D695
	@Thickness 12.7 mm	@Thickness 0.500 in	
Izod Impact, Unnotched	4.81 J/cm	9.00 ft-lb/in	CW, Cond E-48/50; ASTM D256
	@Thickness 12.7 mm	@Thickness 0.500 in	
	17.1 J/cm	32.0 ft-lb/in	LW, Cond E-48/50; ASTM D256
	@Thickness 12.7 mm	@Thickness 0.500 in	

Thermal Properties	Metric	English	Comments
CTE, linear	18.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	10.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	x-axis; IPC-TM 650-2.4.24
	@Thickness 1.57 mm, Temperature 20.0 $\text{Å}^\circ\text{C}$	@Thickness 0.0620 in, Temperature 68.0 $\text{Å}^\circ\text{F}$	
	11.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	6.11 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	

CTE linear, Transverse to Flow			
Thermal Properties	Metric	English	Comments
	@Thickness 1.57 mm, Temperature 20.0 Å°C	@Thickness 0.0620 in, Temperature 68.0 Å°F	x-axis: IPC-TM 650-2.4.24

Electrical Properties	Metric	English	Comments
Dielectric Constant	8.0 @Thickness 1.57 mm	8.0 @Thickness 0.0620 in	Permittivity, Cond D-24/23; ASTM D150
Dielectric Breakdown	11000 V @Thickness 1.57 mm	11000 V @Thickness 0.0620 in	Cond D-48/50; ASTM D229 S/S
	53000 V @Thickness 1.57 mm	53000 V @Thickness 0.0620 in	Cond A; ASTM D229 S/S
Dissipation Factor	0.040 @Thickness 1.57 mm	0.040 @Thickness 0.0620 in	Cond D-24/23; ASTM D150

Descriptive Properties	Value	Comments
Bond Strength	2000 lb	0.5", ASTM D229
Color	Natural	

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