

Industrial Laminates/Norplex P95 Glass Fabric

Category : Polymer , Thermoset

Material Notes:

Description: Woven glass fabric with polyimide resin engineered to maintain excellent physical properties at 240°C. Low coefficient of thermal expansion, high mechanical strength. Thickness Tested: 0.062" , 0.125" , & 0.500"

Order this product through the following link:

http://www.lookpolymers.com/polymer_Industrial-LaminatesNorplex-P95-Glass-Fabric.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.84 g/cc	1.84 g/cc	
Moisture Absorption at Equilibrium	0.35 % @Thickness 1.57 mm	0.35 % @Thickness 0.0620 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	110 - 130 @Thickness 1.57 mm	110 - 130 @Thickness 0.0620 in	
Tensile Strength, Yield	276 MPa @Thickness 3.17 mm	40000 psi @Thickness 0.125 in	CW
	331 MPa @Thickness 3.17 mm	48000 psi @Thickness 0.125 in	LW
Flexural Strength	455 MPa @Thickness 1.57 mm	66000 psi @Thickness 0.0620 in	CW
	538 MPa @Thickness 1.57 mm	78000 psi @Thickness 0.0620 in	LW
Flexural Modulus	19.3 GPa @Thickness 1.57 mm	2800 ksi @Thickness 0.0620 in	CW
	22.1 GPa @Thickness 1.57 mm	3200 ksi @Thickness 0.0620 in	LW
Compressive Strength	483 MPa @Thickness 12.7 mm	70000 psi @Thickness 0.500 in	Flatwise
Shear Strength	186 MPa @Thickness 1.57 mm	27000 psi @Thickness 0.0620 in	Perpendicular
	4.00 J/cm	7.50 ft-lb/in	

Impact, Unnotched Mechanical Properties	Metric @ Thickness 12.7 mm	English @ Thickness 0.500 in	CW, E-48/50 Comments
	6.14 J/cm	11.5 ft-lb/in	LW, E-48/50
	@Thickness 12.7 mm	@Thickness 0.500 in	

Thermal Properties	Metric	English	Comments
CTE, linear	10.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Thickness 1.57 mm, Temperature 20.0 $\text{Å}^\circ\text{C}$	5.56 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Thickness 0.0620 in, Temperature 68.0 $\text{Å}^\circ\text{F}$	x-axis
CTE, linear, Transverse to Flow	13.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Thickness 1.57 mm, Temperature 20.0 $\text{Å}^\circ\text{C}$	7.22 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Thickness 0.0620 in, Temperature 68.0 $\text{Å}^\circ\text{F}$	x-axis
Maximum Service Temperature, Air	240 $\text{Å}^\circ\text{C}$	464 $\text{Å}^\circ\text{F}$	Maximum Operating Temperature
Glass Transition Temp, Tg	200 $\text{Å}^\circ\text{C}$	392 $\text{Å}^\circ\text{F}$	Tg
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Dielectric Constant	4.8 @Thickness 1.57 mm	4.8 @Thickness 0.0620 in	Permittivity, Cond D-24/23
Dielectric Strength	29.5 kV/mm @Thickness 1.57 mm	750 kV/in @Thickness 0.0620 in	D-48/50
	33.5 kV/mm @Thickness 1.57 mm	850 kV/in @Thickness 0.0620 in	Condition - A
Dielectric Breakdown	55000 V @Thickness 1.57 mm	55000 V @Thickness 0.0620 in	D-48/50
	65000 V @Thickness 1.57 mm	65000 V @Thickness 0.0620 in	Condition A
Dissipation Factor	0.010 @Thickness 1.57 mm	0.010 @Thickness 0.0620 in	Cond D-24/23
Arc Resistance	130 sec @Thickness 3.17 mm	130 sec @Thickness 0.125 in	ASTM D495
Comparative Tracking Index	240 V @Thickness 3.17 mm	240 V @Thickness 0.125 in	ASTM D3638

Descriptive Properties	Value	Comments
Bond Strength	1,500 lb	0.5"

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