

## Industrial Laminates/Norplex NP190 Synthetic Fabric (discontinued \*\*)

Category : Polymer , Thermoset , Aramid , Phenolic

### Material Notes:

Description: Aramid fabric material with a high performance phenolic resin matrix. Excellent electrical and mechanical properties at elevated temperatures, and in adverse environments. Applications include wear plates for conveyor systems, and compressor and pump vanes. Thickness Tested: 0.125", 0.250" & 0.500"

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Industrial-LaminatesNorplex-NP190-Synthetic-Fabric-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Industrial-LaminatesNorplex-NP190-Synthetic-Fabric-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.32 g/cc	1.32 g/cc	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	93 - 113	93 - 113	
	@Thickness 1.57 mm	@Thickness 0.0620 in	
Flexural Strength	341 MPa	49500 psi	CW
	@Thickness 1.57 mm	@Thickness 0.0620 in	
	461 MPa	66800 psi	LW
	@Thickness 1.57 mm	@Thickness 0.0620 in	
Compressive Strength	517 MPa	75000 psi	Flatwise
	@Thickness 12.7 mm	@Thickness 0.500 in	
Shear Strength	179 MPa	26000 psi	Perpendicular
	@Thickness 1.57 mm	@Thickness 0.0620 in	
Izod Impact, Unnotched	9.88 J/cm	18.5 ft-lb/in	CW, E-48/50
	@Thickness 12.7 mm	@Thickness 0.500 in	
	10.7 J/cm	20.0 ft-lb/in	LW, E-48/50
	@Thickness 12.7 mm	@Thickness 0.500 in	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	200 °C	392 °F	Maximum Operating Temperature
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
	5.19	5.19	

Dielectric Constant Electrical Properties	Metric @Thickness 1.57 mm	English @Thickness 0.0620 in	Permittivity, Cond D-24/23 Comments
Dielectric Strength	9.53 kV/mm @Thickness 1.57 mm	242 kV/in @Thickness 0.0620 in	D-48/50
	21.3 kV/mm @Thickness 1.57 mm	540 kV/in @Thickness 0.0620 in	Condition - A
Dielectric Breakdown	9000 V @Thickness 1.57 mm	9000 V @Thickness 0.0620 in	D-48/50
	75000 V @Thickness 1.57 mm	75000 V @Thickness 0.0620 in	Condition A
Dissipation Factor	0.0461 @Thickness 1.57 mm	0.0461 @Thickness 0.0620 in	Cond D-24/23
Arc Resistance	182 sec @Thickness 3.17 mm	182 sec @Thickness 0.125 in	ASTM D495

Descriptive Properties	Value	Comments
Bond Strength	1,800 lb	0.5"

## Contact Songhan Plastic Technology Co.,Ltd.

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