

Industrial Laminates/Norplex NP602 Paper Base Laminate

Category : Polymer , Thermoset , Phenolic

Material Notes:

Description: A paper-base laminate with low phenolic resin content for hard, flat surfaces. It is typically hot punched for numerous low voltage, less than 250 volts, electrical applications. Thickness Tested: 0.062", 0.125" and 0.500"

Order this product through the following link:

http://www.lookpolymers.com/polymer_Industrial-LaminatesNorplex-NP602-Paper-Base-Laminate.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 - 1.35 g/cc	1.30 - 1.35 g/cc	ASTM D792
	@Thickness 1.57 mm	@Thickness 0.0620 in	
Moisture Absorption at Equilibrium	8.0 %	8.0 %	ASTM D229
	@Thickness 1.57 mm	@Thickness 0.0620 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	80 - 100	80 - 100	ASTM D785
	@Thickness 1.57 mm	@Thickness 0.0620 in	
Tensile Strength, Yield	89.6 MPa	13000 psi	CW; ASTM D638
	@Thickness 1.57 mm	@Thickness 0.0620 in	
	117 MPa	17000 psi	LW; ASTM D638
	@Thickness 1.57 mm	@Thickness 0.0620 in	
Flexural Strength	152 MPa	22000 psi	CW; ASTM D790
	@Thickness 1.57 mm	@Thickness 0.0620 in	
	172 MPa	25000 psi	LW; ASTM D790
	@Thickness 1.57 mm	@Thickness 0.0620 in	
Compressive Strength	241 MPa	35000 psi	ASTM D695
	@Thickness 12.7 mm	@Thickness 0.500 in	
Izod Impact, Unnotched	0.267 J/cm	0.500 ft-lb/in	CW, Cond E-48/50; ASTM D256
	@Thickness 12.7 mm	@Thickness 0.500 in	
	0.294 J/cm	0.550 ft-lb/in	LW, Cond E-48/50; ASTM D256
	@Thickness 12.7 mm	@Thickness 0.500 in	

Thermal Properties	Metric	English	Comments
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Maximum Service Temperature, Air Thermal Properties	150 Å°C Metric	302 Å°F English	Comments
Flammability, UL94	HB @Thickness 1.57 mm	HB @Thickness 0.0620 in	

Electrical Properties	Metric	English	Comments
Dielectric Breakdown	3000 V @Thickness 1.57 mm	3000 V @Thickness 0.0620 in	Cond D-48/50; ASTM D229 S/S
	60000 V @Thickness 1.57 mm	60000 V @Thickness 0.0620 in	Cond A; ASTM D229 S/S

Descriptive Properties	Value	Comments
Color	Natural, Black, Chocolate	

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