

Industrial Laminates/Norplex NP629 Paper Base Laminate

Category : Polymer , Thermoset , Phenolic

Material Notes:

Description: It is a paper-phenolic high-pressure laminate. It is intended primarily for mechanical applications and is suitable for electrical applications as well. Thickness Tested: 0.062", 0.125" and 0.500"

Order this product through the following link:

http://www.lookpolymers.com/polymer_Industrial-LaminatesNorplex-NP629-Paper-Base-Laminate.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 - 1.40 g/cc	1.30 - 1.40 g/cc	ASTM D792
	@Thickness 1.57 mm	@Thickness 0.0620 in	
Moisture Absorption at Equilibrium	2.0 %	2.0 %	ASTM D229
	@Thickness 1.57 mm	@Thickness 0.0620 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	85 - 105	85 - 105	ASTM D785
	@Thickness 1.57 mm	@Thickness 0.0620 in	
Tensile Strength, Yield	79.3 MPa	11500 psi	CW; ASTM D638
	@Thickness 1.57 mm	@Thickness 0.0620 in	
	93.1 MPa	13500 psi	LW; ASTM D638
	@Thickness 1.57 mm	@Thickness 0.0620 in	
Flexural Strength	117 MPa	17000 psi	CW; ASTM D790
	@Thickness 1.57 mm	@Thickness 0.0620 in	
	152 MPa	22000 psi	LW; ASTM D790
	@Thickness 1.57 mm	@Thickness 0.0620 in	
Compressive Strength	172 MPa	25000 psi	ASTM D695
	@Thickness 12.7 mm	@Thickness 0.500 in	
Shear Strength	79.3 MPa	11500 psi	ASTM D732
	@Thickness 15.7 mm	@Thickness 0.620 in	
Izod Impact, Unnotched	0.214 J/cm	0.400 ft-lb/in	CW, Cond E-48/50; ASTM D256
	@Thickness 12.7 mm	@Thickness 0.500 in	
	0.267 J/cm	0.500 ft-lb/in	LW, Cond E-48/50; ASTM D256
	@Thickness 12.7 mm	@Thickness 0.500 in	

Mechanical Properties	Metric	English	Comments
Flammability, UL94	HB	HB	
	@Thickness 1.57 mm	@Thickness 0.0620 in	

Electrical Properties	Metric	English	Comments
Dielectric Constant	6.2	6.2	Permittivity, Cond D-24/23; ASTM D150
	@Thickness 1.57 mm	@Thickness 0.0620 in	
Dielectric Breakdown	5000 V	5000 V	Cond D-48/50; ASTM D229 S/S
	@Thickness 1.57 mm	@Thickness 0.0620 in	
	40000 V	40000 V	Cond A; ASTM D229 S/S
	@Thickness 1.57 mm	@Thickness 0.0620 in	
Dissipation Factor	0.052	0.052	Cond D-24/23; ASTM D150
	@Thickness 1.57 mm	@Thickness 0.0620 in	

Descriptive Properties	Value	Comments
Bond Strength	900 lb	0.5", ASTM D229
Color	Natural, Black	

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