

Industrial Laminates/Norplex NP613 Paper Base Laminate

Category : Polymer , Thermoset

Material Notes:

Description: NP613 is constructed from electrical grade of kraft paper and a specially modified epoxy resin system. It is designed to be used in tap changers, coil support plates and terminal panels for transformers and their accessories. Thickness Tested: 0.250", 0.500" and 0.750"

Order this product through the following link:

http://www.lookpolymers.com/polymer_Industrial-LaminatesNorplex-NP613-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	2.0 %	2.0 %	ASTM D229
	@Thickness 1.57 mm	@Thickness 0.0620 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	110 - 130	110 - 130	ASTM D785
	@Thickness 1.57 mm	@Thickness 0.0620 in	
Tensile Strength, Yield	131 MPa	19000 psi	CW; ASTM D638
	@Thickness 1.57 mm	@Thickness 0.0620 in	
Flexural Strength	176 MPa	25500 psi	LW; ASTM D638
	@Thickness 1.57 mm	@Thickness 0.0620 in	
Flexural Strength	193 MPa	28000 psi	CW; ASTM D790
	@Thickness 1.57 mm	@Thickness 0.0620 in	
Compressive Strength	234 MPa	34000 psi	LW; ASTM D790
	@Thickness 1.57 mm	@Thickness 0.0620 in	
Compressive Strength	276 MPa	40000 psi	ASTM D695
	@Thickness 12.7 mm	@Thickness 0.500 in	
Izod Impact, Unnotched	0.320 J/cm	0.600 ft-lb/in	CW, Cond E-48/50; ASTM D256
	@Thickness 12.7 mm	@Thickness 0.500 in	
Izod Impact, Unnotched	0.427 J/cm	0.800 ft-lb/in	LW, Cond E-48/50; ASTM D256
	@Thickness 12.7 mm	@Thickness 0.500 in	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	140 Â°C	284 Â°F	
Flammability, UL94	HB @Thickness 1.57 mm	HB @Thickness 0.0620 in	

Electrical Properties	Metric	English	Comments
Dielectric Constant	4.77 @Thickness 1.57 mm	4.77 @Thickness 0.0620 in	Permittivity, Cond D-24/23; ASTM D150
Dielectric Strength	5.51 kV/mm @Thickness 1.57 mm	140 kV/in @Thickness 0.0620 in	Cond D-48/50; ASTM D229 S.T.
	20.9 kV/mm @Thickness 1.57 mm	530 kV/in @Thickness 0.0620 in	Cond A; ASTM D229 S.T.
Dielectric Breakdown	8000 V @Thickness 1.57 mm	8000 V @Thickness 0.0620 in	Cond D-48/50; ASTM D229 S/S
	>= 75000 V @Thickness 1.57 mm	>= 75000 V @Thickness 0.0620 in	Cond A; ASTM D229 S/S
Dissipation Factor	0.46 @Thickness 1.57 mm	0.46 @Thickness 0.0620 in	Cond D-24/23; ASTM D150
Arc Resistance	65 sec @Thickness 3.17 mm	65 sec @Thickness 0.125 in	ASTM D495

Descriptive Properties	Value	Comments
Bond Strength	1500 lb	0.5", ASTM D229
Color	Natural	

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