

Industrial Laminates/Norplex NP615 Paper Base Laminate

Category : Polymer , Thermoset

Material Notes:

Description: Room temperature punching and shearing grade up to .125" thick. More flexible and lower mechanical properties than NP611. NP615 is produced with high resin content melamine impregnated surfaces to give the resulting laminate better arc resistance. Intended for applications where electrical and moisture requirements are secondary. Thickness Tested: 0.062", 0.125" and 0.500"

Order this product through the following link:

http://www.lookpolymers.com/polymer_Industrial-LaminatesNorplex-NP615-Paper-Base-Laminate.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.35 - 1.45 g/cc	1.35 - 1.45 g/cc	ASTM D792
	@Thickness 1.57 mm	@Thickness 0.0620 in	
Moisture Absorption at Equilibrium	3.0 %	3.0 %	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	57.9 MPa	8400 psi	CW; ASTM D638
	@Thickness 1.57 mm	@Thickness 0.0620 in	
	86.2 MPa	12500 psi	LW; ASTM D638
	@Thickness 1.57 mm	@Thickness 0.0620 in	
Modulus of Elasticity	6.89 GPa	1000 ksi	CW; ASTM D229
	@Thickness 1.57 mm	@Thickness 0.0620 in	
	8.27 GPa	1200 ksi	LW; ASTM D229
	@Thickness 1.57 mm	@Thickness 0.0620 in	
Flexural Strength	96.5 MPa	14000 psi	CW; ASTM D790
	@Thickness 1.57 mm	@Thickness 0.0620 in	
	138 MPa	20000 psi	LW; ASTM D790
	@Thickness 1.57 mm	@Thickness 0.0620 in	
Compressive Strength	124 MPa	18000 psi	ASTM D695
	@Thickness 12.7 mm	@Thickness 0.500 in	
	81.4 MPa	11800 psi	

Shear Strength Mechanical Properties	Metric @Thickness 15.7 mm	English @Thickness 0.620 in	ASTM D732 Comments
Izod Impact, Unnotched	0.304 J/cm @Thickness 12.7 mm	0.570 ft-lb/in @Thickness 0.500 in	CW, Cond E-48/50; ASTM D256
	0.315 J/cm @Thickness 12.7 mm	0.590 ft-lb/in @Thickness 0.500 in	LW, Cond E-48/50; ASTM D256

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	120 Â°C	248 Â°F	
Flammability, UL94	HB @Thickness 1.57 mm	HB @Thickness 0.0620 in	

Electrical Properties	Metric	English	Comments
Dielectric Constant	6.49 @Thickness 1.57 mm	6.49 @Thickness 0.0620 in	Permittivity, Cond D-24/23; ASTM D150
Dielectric Strength	27.6 kV/mm @Thickness 1.57 mm	700 kV/in @Thickness 0.0620 in	Cond A; ASTM D229 S.T.
Dielectric Breakdown	55000 V @Thickness 1.57 mm	55000 V @Thickness 0.0620 in	Cond A; ASTM D229 S/S
Dissipation Factor	0.096 @Thickness 1.57 mm	0.096 @Thickness 0.0620 in	Cond D-24/23; ASTM D150
Arc Resistance	110 sec @Thickness 3.17 mm	110 sec @Thickness 0.125 in	ASTM D495

Descriptive Properties	Value	Comments
Bond Strength	1400 lb	0.5", ASTM D229
Color	Natural	

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