Industrial Laminates/Norplex NP843 Paper Base Laminate

Category : Polymer , Thermoset , Phenolic

Material Notes:

Description: Paper reinforced phenolic grade with controlled conductivity. Mechanical strength similar to NP611. NP843 has conductive surfaces only, as compared to NP842, which is conductive through and on the surfaces.Thickness Tested: 0.062", 0.125", and 0.500"

Order this product through the following link:
http://www.lookpolymers.com/polymer_Industrial-LaminatesNorplex-NP843-Paper-Base-Laminate.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.35 - 1.45 g/cc @Thickness 1.57 mm	1.35 - 1.45 g/cc @Thickness 0.0620 in	ASTM D792
Moisture Absorption at Equilibrium	2.3 % @Thickness 1.57 mm	2.3 % @Thickness 0.0620 in	ASTM D229

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	90 - 110 @Thickness 1.57 mm	90 - 110 @Thickness 0.0620 in	ASTM D785
Tensile Strength, Yield	103 MPa @Thickness 1.57 mm	15000 psi @Thickness 0.0620 in	CW; ASTM D638
	152 MPa @Thickness 1.57 mm	22000 psi @Thickness 0.0620 in	LW; ASTM D638
Modulus of Elasticity	10.0 GPa @Thickness 1.57 mm	1450 ksi @Thickness 0.0620 in	CW; ASTM D229
	14.5 GPa @Thickness 1.57 mm	2100 ksi @Thickness 0.0620 in	LW; ASTM D229
Flexural Strength	145 MPa @Thickness 1.57 mm	21000 psi @Thickness 0.0620 in	CW; ASTM D790
	172 MPa @Thickness 1.57 mm	25000 psi @Thickness 0.0620 in	LW; ASTM D790
Compressive Strength	303 MPa @Thickness 12.7 mm	44000 psi @Thickness 0.500 in	ASTM D695
Shear Strength	79.3 MPa @Thickness 15.7 mm	11500 psi @Thickness 0.620 in	ASTM D732

Mechanical Properties	Metric	English	Comments
Izod Impact, Unnotched	0.534 J/cm @Thickness 12.7 mm	1.00 ft-lb/in @Thickness 0.500 in	CW, Cond E-48/50; ASTM D256
	0.374 J/cm @Thickness 12.7 mm	0.700 ft-lb/in @Thickness 0.500 in	LW, Cond E-48/50; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	10.0 Âµm/m-Â°C @Thickness 1.57 mm, Temperature 20.0 Â°C	5.56 Âµin/in-Â°F @Thickness 0.0620 in, Temperature 68.0 Â°F	x-axis; IPC-TM 650-2.4.24
CTE, linear, Transverse to Flow	12.0 Âµm/m-Â°C @Thickness 1.57 mm, Temperature 20.0 Â°C	6.67 Âµin/in-Â°F @Thickness 0.0620 in, Temperature 68.0 Â°F	x-axis; IPC-TM 650-2.4.24
Maximum Service Temperature, Air	125 Â°C	257 Â°F	
Flammability, UL94	HB @Thickness 1.57 mm	HB @Thickness 0.0620 in	

Descriptive Properties	Value	Comments
Bond Strength	1000 lb	0.5", ASTM D229
Color	Black	

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