

Industrial Laminates/Norplex NP842 Paper Base Laminate (discontinued **)

Category : Polymer , Thermoset , Phenolic

Material Notes:

Description: Paper reinforced phenolic grade with controlled conductivity. Mechanical strength similar to NP611. NP842 is semi-conductive on the surfaces and through the laminate. Thickness Tested: 0.062", 0.125" & 0.500".

Order this product through the following link:

http://www.lookpolymers.com/polymer_Industrial-LaminatesNorplex-NP842-Paper-Base-Laminate-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.35 - 1.40 g/cc	1.35 - 1.40 g/cc	ASTM D792
	@Thickness 1.57 mm	@Thickness 0.0620 in	
Moisture Absorption at Equilibrium	1.0 %	1.0 %	ASTM D229
	@Thickness 1.57 mm	@Thickness 0.0620 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	90 - 110	90 - 110	ASTM D785
	@Thickness 1.57 mm	@Thickness 0.0620 in	
Tensile Strength, Yield	110 MPa	16000 psi	CW; ASTM D638
	@Thickness 1.57 mm	@Thickness 0.0620 in	
	138 MPa	20000 psi	LW; ASTM D638
	@Thickness 1.57 mm	@Thickness 0.0620 in	
Modulus of Elasticity	6.21 GPa	900 ksi	CW; ASTM D229
	@Thickness 1.57 mm	@Thickness 0.0620 in	
	6.89 GPa	1000 ksi	LW; ASTM D229
	@Thickness 1.57 mm	@Thickness 0.0620 in	
Flexural Strength	103 MPa	15000 psi	CW; ASTM D790
	@Thickness 1.57 mm	@Thickness 0.0620 in	
	145 MPa	21000 psi	LW; ASTM D790
	@Thickness 1.57 mm	@Thickness 0.0620 in	
Compressive Strength	221 MPa	32000 psi	ASTM D695
	@Thickness 12.7 mm	@Thickness 0.500 in	
Shear Strength	77.2 MPa	11200 psi	ASTM D732
	@Thickness 15.7 mm	@Thickness 0.620 in	

Mechanical Properties	Metric <small>J/cm</small>	English <small>-lb/in</small>	Comments
Izod Impact, Unnotched	@Thickness 12.7 mm	@Thickness 0.500 in	CW, Cond E-48/50; ASTM D256
	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
CTE, linear	10.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	5.56 $\mu\text{in}/\text{in}\cdot\text{°F}$	x-axis; IPC-TM 650-2.4.24
	@Thickness 1.57 mm, Temperature 20.0 °C	@Thickness 0.0620 in, Temperature 68.0 °F	
CTE, linear, Transverse to Flow	12.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	6.67 $\mu\text{in}/\text{in}\cdot\text{°F}$	x-axis; IPC-TM 650-2.4.24
	@Thickness 1.57 mm, Temperature 20.0 °C	@Thickness 0.0620 in, Temperature 68.0 °F	
Maximum Service Temperature, Air	130 °C	266 °F	
Flammability, UL94	HB	HB	
	@Thickness 1.57 mm	@Thickness 0.0620 in	

Descriptive Properties	Value	Comments
Bond Strength	1200 lb	0.5", ASTM D229
Color	Black	

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