

Product Data Sheet

P1 / PAPER - Synthetic Resin Bonded Phenolic Paper

This is a low cost commercial quality Paper based laminate and is used for low cost, low voltage installations, jigs and fixtures.

Physical Properties

Properties		Units	Values
Colour			Brown
Density		g/cm ³	1.35
Water absorption	1.6mm	mg	60
	3mm	mg	70
	6mm	mg	100
	12mm	mg	150
Thermal Properties			
Maximum working temperature	continuous	°C	90
	intermittent	°C	120
Thermal classification			A/E
Flammability category			-
Thermal conductivity through laminae		W/(mK)	-
Thermal expansion in plane of laminae		X10 ⁻⁵ /K	-
Specific heat		KJ/(kgK)	-
Mechanical Properties			
Cross breaking strength		MPa	175
-at 150°C (after 1 hour at 150°C)		MPa	-
-at 150°C (after 100 hours at 200°C)		MPa	-
Charpy impact strength	un-notched	kJ/m ²	3.0
	notched	kJ/m ²	3.9
Compressive strength	flatwise	MN/m ²	280
	edgewise	MPa	-
Resistance to flatwise compression		%	1.3
Flexural strength	flatwise	MN/m ²	150
	edgewise	MPa	-
Shear strength (flatwise)		MPa	-
Electrical Properties			
Insulation resistance		M Ω (ohms)	5 x 10
-after immersion in water		Ω (ohms)	-
Loss tangent at 1MHz		-	-
Permittivity at 1MHz		-	-
Dielectric strength	flatwise	V	-
	edgewise	V	-
Comparative tracking index (CTI)		-	-
Specifications			
BS2572 Type P1, BSEN60893 Type 3-4-PFCP201			

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