

DATA SHEET/TEST REPORT PHENOLIC PAPER LAMINATES

GRADE : P-1
THICKNESS/SIZE : 16 MM

Type acc to IS 2036/95,		P-1	
Properties	Unit	SPECIFICATION	Observed values
Mechanical Properties			
Cross breaking Strength	Mpa	130	137
Impact strength	kJ/m ²	NA	NA
Shear Strength	Mpa	NA	NA
Electrical Properties			
Electric strength at 90°C in oil perpendicular to layers parallel to layers cond. A	- kV	- NIL	15
Insulation Resistance after immersion in water	MΩ	1	100+
Comparative tracking index (CTI)		100	165
Thermal endurance	°C	120	150
Physical properties			
Density	g/cm ³	1.3-1.4	1.37
Water absorption	mg	794	280




Mica and Insulating Supplies Co. Pty Ltd
89-91 Licola Crescent,
Dandenong South, Victoria, 3175
Australia
+61 3 9706 5185
info@misco.net.au

All information contained in this data sheet is believed to be reliable and is subject to change due to developments in design, technical specifications, or standards. We advise, however, that customers should separately evaluate the suitability of our products for their application.

DATA SHEET PAPER PHENOLIC LAMINATES

GRADE : P-2
THICKNESS/SIZE : 3 MM

Type acc to IS 2036/95,		P-2	
Properties	Unit	SPECIFICATION	Observed values
Mechanical Properties			
Cross breaking Strength	Mpa	130	135
Impact Strength	kJ/m ²	NA	-
Shear Strength	Mpa	NA	-
Electrical Properties			
Electric strength at 90° C in oil			
Flatwise min.	-	-	
Edgewise min.	Kv	20	45
Insulation Resistance after immersion in water	MΩ	10	1000+
Dissipation factor at 1MHZ max		NA	-
Permittivity at 1 MHZ		NA	-
Thermal endurance	°C	120	160
Physical properties			
Density	g/cm ³	1.3-1.4	1.38
Water absorption	Mg	545	110




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DATA SHEET PAPER PHENOLIC LAMINATES

GRADE : P-3
 THICKNESS/SIZE : 16 MM & 6 MM

Type acc to IS 2036/95,	P-3		
Properties	Unit	SPECIFICATION	Observed values
Mechanical Properties			
Cross breaking Strength	Mpa	85	135
Impact Strength	kJ/m2	NA	-
Shear Strength	Mpa	NA	-
Tensile Strength	Mpa	100	130
Thermal Endurance	°C	120	160
Electrical Properties			
Electric strength at 900 C in oil			
Flatwise min.	-	-	-
Edgewise min.	Kv	25	45
Insulation Resistance after immersion In water	MΩ	1000	1000 +
Dissipation factor at 1MHZ max		0.045	0.025
Permittivity at 1 MHZ		5.7	4.5
Comparative tracking index	CTI	100	175
Thermal endurance	OC	120	160
Physical properties			
Density	g/cm3	1.3-1.4	1.38
Water absorption (16MM)	Mg	186	110
Flammability Rating	Class	HB	HB