

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

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

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/m ²	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/cm ³	1.3-1.4	1.38
Water absorption (16MM)	Mg	186	110
Flammability Rating	Class	HB	HB