

## DATA SHEET/TEST REPORT PHENOLIC PAPER LAMINATES

GRADE : P-1  
 THICKNESS/SIZE : 16.0 MM

Type acc to IS 2036/95,		P-1	
Properties	Unit	SPECIFICATION	Observed values
<b>Mechanical Properties</b>			
Cross breaking Strength	Mpa	130	137
Impact strength	kJ/m <sup>2</sup>	NA	NA
Shear Strength	Mpa	NA	NA
<b>Electrical Properties</b>			
Electric strength at 90°C in oil			
• perpendicular to layers	-	-	
• parallel to layers cond. A	kV	NIL	15
<b>Insulation Resistance after immersion In water</b>			
	MΩ	1	100+
<b>Comparative tracking index (CTI)</b>		100	165
<b>Thermal endurance</b>	°C	120	150
<b>Physical properties</b>			
<b>Density</b>	g/cm <sup>3</sup>	1.3-1.4	1.37
<b>Water absorption</b>	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
<b>Mechanical Properties</b>			
Cross breaking Strength	Mpa	130	135
Impact Strength	kJ/m <sup>2</sup>	NA	-
Shear Strength	Mpa	NA	-
<b>Electrical Properties</b>			
<b>Electric strength at 90° C in oil</b>			
• Flatwise min.	-	-	
• Edgewise min.	Kv	20	45
<b>Insulation Resistance after immersion In water</b>			
	MΩ	10	1000+
<b>Dissipation factor at 1MHZ max</b>		NA	-
<b>Permittivity at 1 MHZ</b>		NA	-
<b>Thermal endurance</b>	°C	120	160
<b>Physical properties</b>			
<b>Density</b>	g/cm <sup>3</sup>	1.3-1.4	1.38
<b>Water absorption</b>	Mg	545	110



## DATA SHEET PAPER PHENOLIC LAMINATES

GRADE : P-3  
 THICKNESS/SIZE : 10 MM size 1220x1220 mm

Type acc to IS 2036/95,		P-3	
Properties	Unit	SPECIFICATION	Observed values
<b>Mechanical Properties</b>			
Cross breaking Strength	Mpa	85	135
Impact Strength	kJ/m <sup>2</sup>	NA	-
Shear Strength	Mpa	NA	-
<b>Electrical Properties</b>			
<b>Electric strength at 90° C in oil</b>			
• Flatwise min.	-	-	
• Edgewise min.	Kv	25	40
<b>Insulation Resistance after immersion</b>			
In water	MΩ	1x10 <sup>3</sup>	4x10 <sup>3</sup>
<b>Dissipation factor at 1MHZ max</b>		NA	-
<b>Permittivity at 1 MHZ</b>		NA	-
Thermal endurance	°C	120	160
<b>Physical properties</b>			
Density	g/cm <sup>3</sup>	1.3-1.4	1.38
Water absorption	Mg	149	90

