

UTILEX ENGINEERING PVT. LTD.

Technical Data (Paper Based Industrial Laminates Grade (P3))

GRADE	LPP03 (P3)
COLOUR	Sheets are supplied in light brown colour.
THICKNESS	0.8 MM - 50.0 MM.
DESCRIPTION	These are Paper Based Laminates confirming to specification, as per IS:2036, GRADE P3. These Laminates have good electrical and adequate mechanical Properties with very low water absorption which makes them suitable for high voltage electrical application even under tropical conditions. These can be supplied with additional layers of Melamine overlay surface at both the sides for improved tracking index.
SIZE	These sheets are supplied in standard size of 2440mm x 1220mm or 1220 x 1220mm or 1220 x 610 or 610 x 610mm.
TOLERANCES	Sheets are supplied as per tolerance specified in IS:2036. Material can be supplied with still closer tolerance as per customers requirement.

Properties	Units	Average Test Results	Value As Per IS:2036 -1995
<i>Mechanical</i>			
Tensile Strength	Kg/cm ²	600	--
Flexural Strength /Cross Breaking Strength	MPa	110	70 Min
Shear Strength	MPa	80	50Min
Impact Strength (Edgewise) (Charpy Method)	KJ/m ²	5.5	--
Specific Gravity		1.36	--
<i>Electrical</i>			
Insulation Resistance after immersion in water for 24hrs. at 20°C	Meg Ohms	5000	1000
Electrical strength in oil at 90°C			
* Flat wise (3.0 mm Thickness)	Kv/mm	8.5	6.4
* Edgewise (5 mm Thickness)	Kv	40	25
Water Absorption: (Specimen size -50 ± 1 mm square)			
* Thickness	mm	0.8 3.2 12.0 25.0	
* Maximum Values	mg	67 90 162 219	
* Typical Value Results	mg	48 72 108 178	

**SPECIFICATIONS MET: BS:2572:GRADE P3/1 EN 60893-3-4-PF CP206
DIN:7735 GRADE HP 2061.6**

