

UTILEX ENGINEERING PVT. LTD.

Technical Data (Paper Based Industrial Laminates - Grade P100 (P1))

GRADE	LPP01 (P1)
COLOUR	Sheets are supplied in natural brown color, but can be also supplied in black Color against specific enquires.
THICKNESS	0.5 MM - 50.0 MM.
DESCRIPTION	These are Paper Based Laminates confirming to specification, as per IS:2036, GRADE P1, and have excellent Mechanical Properties and can withstand low tension Electrical applications under non humid atmosphere.
SIZE	These sheets are supplied in standard size of 2440mm x 1220mm , 1220 x 1220mm or 1220mm x 610 or 610mm 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
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Mechanical

Tensile Strength	Kg/cm ²	1050	--
Flexural Strength /Cross Breaking strength	Kg/cm ²	1450	1300 Min
Shear Strength	Kg/cm ²	900	750 Min.
Impact Strength (Edgewise) (Charpy method)	KJ/m ²	6.2	--
Specific Gravity		1.38	--

Electrical

Insulation Resistance after immersion in water for 24hrs. at 20°C	Meg Ohms	25	1
Electrical Strength in Oil at 90°C			
* Flat wise (3.0 mm Thickness)	Kv/mm	3	--
* Edgewise (5.0 mm Thickness)	Kv	5	--

Water Absorption: (Specimen size -50 ± 1 mm square)

* Thickness	mm	0.8	3.2	12.0	25.0
* Maximum Values	mg	435	550	747	862
* Typical Value Results	mg	245	270	330	380

**SPECIFICATIONS MET: BS:2572:GRADE P1 /EN 60893-3-4-PFCP201
DIN 7735 GRADE HP 2061.
NEMA:L1 I 1989 GRADE X.**