



POLYCHEM INTERNATIONAL

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TECHNICAL DATA (PAPER BASED INDUSTRIAL LAMINATES GRADE P100. (P1)

GRADE	:	LPP01 (P1)
COLOUR	:	Sheets are supplied in natural brown colour, but can be also supplied in black colour against specific enquiries.
THICKNESS	:	0.5 MM - 50.0MM
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 1220 mm 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	VALUES AS PER IS: 2036 -
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MACHANICAL

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 (Edge wise) (Charpy method)	KJ/m ²	6.2	--
Specific Gravity		1.38	--

ELECTRICAL:

Insulation Resistance after immersion in water for 24 hours at 20 ⁰ C	Meg Ohms	25	1
Electric Strength in Oil at 90 ⁰ C			
Flat wise(3.0mm Thickness)	Kv/mm	3	--
Edge wise (5.0mm Thickness)	Kv	5	--

WATER ABSORPTION (Specimen size - 50 +/-1mm 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

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