



# POLYCHEM INTERNATIONAL

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## TECHNICAL DATA (PAPER BASED INDUSTRIAL LAMINATES (P2))

- GRADE** : LPP02 (P2)
- COLOUR** : Sheets are supplied in natural colour, but can be also supplied in Black colour against specific enquiries.
- THICKNESS** : 0.8MM - 50.0MM
- DESCRIPTION:** These are paper Based Laminates confirming to specification as per IS:2036, GRADE P2. These Laminates are having good Mechanical Properties and better Electrical Properties, than P1 and are especially suitable for Power Electrical Industry for High voltage applications at power frequencies. High electric strength under oil. Good electric strength in air under normal humidity.
- SIZE** : These sheets are supplied in standard size of 2440mm x 1220mm or 1220 x 1220mm or 1220 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	VALUES AS PER IS:2036 -1995
<b><u>MECHANICAL</u></b>			
Tensile Strength	Kg/cm <sup>2</sup>	850	---
Flexural Strength/ Cross Breaking Strength	Kg/cm <sup>2</sup>	1450	1300 Min
Shear Strength	Kg/cm <sup>2</sup>	820	700 min.
Impact Strength (Edgewise) (Charpy Method)	KJ/m <sup>2</sup>	6.2	---
Specific Gravity		1.38	---
<b><u>ELECTRICAL:</u></b>			
Insulation Resistance after immersion in water for 24 hours.at 20 <sup>o</sup> C	Megohms	150	100
ELECTRICAL STRENGTH in Oil at 90 <sup>o</sup> C			
Flatwise (3.0mm Thickness)	Kv/mm	7.6	6.4
Edgewise (12.7mm Thickness)	Kv	30	20
<b><u>WATER ABSORPTION</u></b> (Specimen size - 50 ± 1 mm square)			
* Thickness	mm	0.8	3.0 12.0 25.0
* Maximum Values	mg	125	169 292 397
*Typical Value results	mg	35	95 156 210

**SPECIFICATIONS MET:** BS:2572:GRADE P2/1 / EN 60893-3-4-PFCP 203  
NEMA:L1-I-1989 GRADE.X X  
DIN:7735 GRADE.HP 2061.5