



# POLYCHEM INTERNATIONAL

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## TECHNICAL DATA (PAPER BASED INDUSTRIAL LAMINATES GRADE ( P3 )

- GRADE** : LPP03 (P3)
- COLOUR** : Sheets are supplied in light brown colour.
- THICKNESS** : 0.8 MM - 50.0MM
- 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 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 - 1995.	
<b><u>MECHANICAL</u></b>					
Tensile Strength	Kg/cm <sup>2</sup>	600		---	
Flexural Strength/ Cross Breaking Strength	MPa	110		70 Min	
Shear Strength	MPa	80		50 Min.	
Impact Strength (Edge wise) (Charpy Method)	KJ/m <sup>2</sup>	5.5		---	
Specific Gravity		1.36		---	
<b><u>ELECTRICAL:</u></b>					
Insulation Resistance after immersion in water for 24 hours at 20 <sup>o</sup> C	Meg Ohms	5000		1000	
Electric Strength in oil at 90 <sup>o</sup> C Flat wise(3.0mm Thickness)	Kv/mm	8.5		6.4	
Edgewise (5mm thick)	Kv	40		25	
<b><u>WATER ABSORPTION</u></b> (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  
NEMA:L1 I 1989 GRADE XXX.