



# DATA SHEET

SHEETS

## SHPB – P3

Sheet - Paper based laminates that have excellent electrical and adequate mechanical properties with very low water absorption.

**GRADE:** P3 Paper Base Industrial Laminate

**COLOUR:** Sheets are supplied in Natural brown (Honey)

**DESCRIPTION:** These are paper based laminates to specification as per IS:2036, GRADE P3, and have excellent electrical and adequate mechanical with very low water absorption. Suitable for high voltage electrical applications.

**SIZE:** Standard size is 2440 mm X 1220 mm

**TOLERANCE:** Sheets are supplied as per tolerance specified in IS: 2036

PROPERTIES MECHANICAL	UNITS	AVERAGE TEST RESULTS	VALUES AS PER IS:2036-1995
Tensile Strength	Kgf/cm <sup>2</sup>	600	560 Min
Cross Breaking Strength	Kgf/cm <sup>2</sup>	1150	850 Min
Shear Strength	Kgf/cm <sup>2</sup>	675	625 Min
Impact Strength (Edgewise)	Kgf/cm <sup>2</sup>	2.5	2.07 Min
Specific Gravity	Gms/cc	1.36	
Compression Strength	Kgf/cm <sup>2</sup>	895	840 Min

ELECTRICAL			
Insulation Resistance after Immersion in water for 24 hours	Meg Ohms	1125 Meg Ohms	1000 Meg Ohms
Electrical Strength Flatwise (3.2mm thick)	Kv	Withstood 21 KV for 1 Min	21
Electrical Strength Edgewise (5mm thick)	Kv	Withstood 25KV for 1 Min	25

**WATER ABSORPTION** (Specimen size- 100± 1mm square)

**\*\*Thickness** mm 0.8 3.2 12.0 25.0

**\*\*Average Test Results** mg 18 26 13 50

**\*\*Maximum Values** mg 25 32 18 70

**SPECIFICATIONS MET:** BS:2572 GRADE:P3.NFMA:L1-1-1989 GRADE XXX.DIN:7735 GRADE HP 2061.6

75	90	105	120	130	155	180	200	220	250	250 +	105 Deg C Class C
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