

UTILEX ENGINEERING PVT. LTD.

Technical Data (Fabric Base Industrial Laminates - Grade F4)

GRADE	LPF - 4 (F4)
COLOUR	Sheets are supplied in natural color, but can be supplied in Black Colour also against specific enquiries.
THICKNESS	0.5 MM - 150.0 MM.
DESCRIPTION	LPF - 4 Grade material is manufactured from medium weaved, Fabric with very good dielectrical Properties and medium Mechanical Strength. Some of the application of the material is Armature Wedges, Generator Slot Wedge insulation and busbar supports etc.,
SIZE	Standard sizes are 2440mm x 1220mm or 1220mm x 1220mm or 1220mm x 610mm 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	Kgf/cm ²	600	--
Flexural Strength/Cross Breaking Strength	Kgf/cm ²	1225	1000 Min.
Impact Strength (Edgewise) (Charpy method)	KJ/m ²	9	7 Min.
Specific Gravity		1.33	--

Electrical

Electrical strength in oil at 90° C			
* Flat wise 3.0 mm Thickness	Kv/mm	4.5 Min	4.0 Kv
* Edgewise 12.7 mm thickness	Kv	25.0	15.0 Kv
Insulation Resistance after immersion in water for 24hrs. at 20° C	Meg Ohms	300	50 Min.

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

* Thickness	mm	1.6	2.0	5.0	20.0
* Maximum values	mg	145	151	176	253
* Average Test Results	mg	35	41	62	85

**SPECIFICATIONS MET: BS:2572:GRADE F4 /EN-60893-3-4-PF CC204
DIN:7735 GRADE HGW 2082.5**