

UTILEX ENGINEERING PVT. LTD.

Technical Data (Fabric Base Industrial Laminates - Grade F1)

GRADE	LPF - 1 (F1)
COLOUR	Sheets are supplied in natural color, but can be also supplied as per requirement i.e. Dark Brown or Black Color.
THICKNESS	0.4 MM - 150.0 MM.
DESCRIPTION	LPF - 1 Grade material is manufactured from fine weave scoured Cotton fabric. This has got good electrical and mechanical Properties and can be machined to a fine finish. This is suitable For small components such as instrument gears as well as intricate Machined items.
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	780	--
Flexural Strength/Cross Breaking Strength	Kgf/cm ²	1475	1350 Min.
Shear Strength	Kgf/cm ²	740	650 Min.
Impact Strength (Edgewise) (Charpy method)	KJ/m ²	8	6 Min
Specific Gravity		1.35	--

Electrical

Electrical Strength in Oil at 90° C

* Flat wise 1.6 mm Thickness	Kv/mm	2.50	1.21Min.
* Edgewise 3.2mm thickness	Kv	4	2.0 min
Insulation Resistance after immersion in water for 24hrs. at 20° C	Meg Ohms	50	1.0 Min.

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

* Thickness	mm	0.8	6.0	16.0	25.0
* Maximum values	mg	201	277	354	420
* Average Test Results	mg	180	235	305	380

SPECIFICATIONS MET: BS:2572:GRADE F1/EN - 60893-3-4-PFCC203