

# DATASHEET

## KITE TUFNOL

Kite Tufnol is a first-class electrical insulating material with good dielectric strength and high insulation resistance. It has low moisture absorption and good mechanical strength, although its impact strength is lower than that of most other grades of Tufnol.

### Applications

- Terminal Boards
- Mounting Panels
- Tag Strips
- Coil Formers
- Insulating Sleeves & Bushes

### Availability

- Colour – Natural
- Type – Sheet, Rod & Tube
- Regularly produced in a wide variety of thicknesses

### Typical Properties

Property	Units	Result
Cross Breaking Strength	MPa	175
Impact Strength, Notched, Charpy	kJ/m <sup>2</sup>	2.7
Compressive Strength, Flatwise	MPa	350
Compressive Strength, Edgewise	MPa	200
Resistance to Flatwise Compression	%	1.2
Shear Strength, Flatwise	MPa	1.5
Water Absorption:		
- 1.6mm thick	mg	39
- 3mm thick	mg	47
- 6mm thick	mg	56
- 12mm thick	mg	70
Electric Strength, Flatwise in Oil at 90°C:		
- 1.6mm thick	MV/m	14.5
- 3mm thick	MV/m	13
- 6mm thick	MV/m	8.8
Electrical Strength, Edgewise in Oil at 90°C	kV	55
Insulation Resistance after Immersion in Water	ohms	1x10 <sup>10</sup>
Loss Tangent at 1 MHz	-	0.037
Permittivity at 1 MHz	-	5.1
Relative Density	-	1.36
Maximum Working Temperature:		
- Continuous	°C	90



- Intermittent	°C	120
Thermal Classification	-	Class E
Thermal Conductivity through Laminae	W/(mK)	0.26
Thermal Expansion in Plane of Laminae	X10-5/K	1.8
Specific Heat	kJ/(kgK)	1.5