



6F/45 Epoxy Cotton Grade Tufnol

Sheet

Technical Specification

Physical Properties	Typical Results	Units
Cross Breaking Strength	170	MPa
Impact Strength Notched	4.6	kJ/m ²
Compressive Strength Flatwise	290	MPa
Compressive Strength Edgewise	190	MPa
Shear Strength Flatwise	100	-
Water Absorption		
- 1.6mm thick	30	mg
- 3mm thick	35	mg
- 6mm thick	45	mg
- 12mm thick	55	mg
Electrical Strength Flatwise in Oil at 90°C		
- 1.6mm thick	15	MV/m
- 3mm thick	12	MV/m
- 6mm thick	10	MV/m
Electric Strength Edgewise in Oil at 90°C	80	kV
Insulation Resistance after immersion in water	3x10 ¹¹	ohms
Loss Tangent at 1MHz	0.040	-
Permittivity at 1 MHz	4.3	-
Comparative Tracking Index	800	-
Relative Density	1.36	-
Maximum Working Temperature		
- Continuous	130	°C
- Intermittent	150	°C
Thermal Classification	Class B	-
Thermal Conductivity Through Laminate	0.36	W/(mK)
Thermal Expansion in plane of Laminate	1.8	X10 ⁻⁵ /k
Specific Heat	1.5	kJ/(kgK)

Rod

Technical Specification

Physical Properties	Typical Results	Units
Flexural Strength	170	MPa
Water Absorption	1.3	mg/cm ²
Insulation Resistance after immersion in water	1x10 ¹⁰	ohms
Axial Electric Strength in oil at 90°C	80	kV
Relative Density	1.35	-
Test Method as BS 6128		



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Round Tube Technical Specification

Physical Properties	Typical Results	Units
Axial Compressive Strength	180	MPa
Cohesion Between Layers	130	MPa
Water Absorption	1.2	mg/cm ²
Insulation Resistance after immersion in water	1x10 ¹⁰	ohms
Loss Tangent at 1 MHz	0.04	-
Permittivity at 1 MHz	4.0	-
Axial Electric Strength in oil at 90°C	75	KV
Radial Electric Strength in oil at 90°C		
- 1.6 wall	13	MV/m
- 3.0 wall	10	MV/m
Relative Density	1.35	-
Test Methods as BS EN 61212-2		

Specification

Sheet: BS 2572 Type F2/1

Round Rod: BS 6128 Part 2 Type PF CC 24

Rectangle Bar: BS 6128 Part 4 Type PF CC 44

Hexagon Bar: BS 6128 Part 6 Type PF CC 64

Round Tubes: BS 6128 Part 9 Type PF CC 93

Rectangular Tube: BS 6128 Part 13 Type PF CC 133

MIL*

Sheet: MIL-I-24768

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