



Kite Grade Tufnol

Sheet

Technical Specification

Physical Properties	Typical Results	Units
Cross Breaking Strength	175	MPa
Impact Strength Notched	2.7	kJ/m ²
Compressive Strength Flatwise	350	MPa
Tensile Strength	200	MPa
Youngs Modulus	1.2	%
Shear Strength Flatwise	105	MPa
Water Absorption		
- 1.6mm thick	39	mg
- 3mm thick	47	mg
- 6mm thick	56	mg
- 12mm thick	70	mg
Electrical Strength Flatwise in Oil at 90°C		
- 1.6mm thick	14.5	MV/m
- 3mm thick	13	MV/m
- 6mm thick	8.8	MV/m
- 12mm thick	6.1	MV/m
Electric Strength Edgewise in Oil at 90°C	55	kV
Insulation Resistance after immersion in water	1x10 ¹⁰	ohms
Loss Tangent at 1MHz	0.037	-
Permittivity at 1 MHz	5.1	-
Relative Density	1.36	-
Maximum Working Temperature		
- Continuous	90	°C
- Intermittent	120	°C
Thermal Classification	Class E	-
Thermal Conductivity through Laminate	0.26	W/(mK)
Thermal Expansion in lane on Laminate	1.8	X10 ⁻⁵ /k
Specific Heat	1.5	kJ(kgK)
Test methods as BS 2572, where applicable		

Round Rods

Flexural Strength	170	MPa
Water Absorption	2.5	mg/cm
Insulation Resistance after Immersion	5x10	ohms
Axial Electric Strength in oil at 90°C	15	kV
Relative Density	1.35	-
Test methods as BS 6128		



Bay Plastics Datasheet

Round Tubes

Technical Specification

Physical Properties	Typical Results	Units
Axial Compressive Strength	190	MPa
Cohesion between layers	110	MPa
Water Absorption	1.0	mg/cm ²
Insulation Resistance after immersion in water	1x10 ⁹	ohms
Radial Electric Strength in oil at 90°C		
- 1.6 wall	8	MV/m
- 3.0 wall	6	MV/m
Relative Density	1.35	-

Specifications

British Standards	Sheet: BS EN 60893 Type PF CP 206	Round Tube: EN 61212-3-2 Type PF CP 32
Admiralty	Sheet: NES 2053	Round Tube: NES 2054
NEMA*	Sheet: Nema Type XXX	Round Tube: Nema Type XXX
MIL*	Sheet: MIL-I-24768	Round Tube: MIL-I-24768

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Bay Plastics Ltd, Unit H1 High Flatworth, Tyne Tunnel Trading Estate, North Shields, Tyne & Wear, NE29 7UZ

Tel: 0191 2580777

Fax: 0191 2581010

Email: sales@bayplastics.co.uk

www.bayplastics.co.uk

www.plasticstockist.com