



Carp Grade Tufnol

Sheet

Technical Specification

Physical Properties	Typical Results	Units
Cross Breaking Strength	150	MPa
Impact Strength Notched	8.6	kJ/m ²
Compressive Strength Flatwise	350	MPa
Compressive Strength Edgewise	200	MPa
Shear Strength Flatwise	105	-
Tensile Strength	68	MPa
Youngs Modulus	6.5	GPa
Water Absorption		
- 1.6mm thick	55	mg
- 3mm thick	70	mg
- 6mm thick	90	mg
- 12mm thick	125	mg
Electrical Strength Flatwise in Oil at 90°C		
- 1.6mm thick	7.2	MV/m
- 3mm thick	4.9	MV/m
- 6mm thick	4.0	MV/m
Electric Strength Edgewise in Oil at 90°C	23	kV
Insulation Resistance after immersion in water	7x10 ⁹	ohms
Relative Density	1.36	-
Maximum Working Temperature		
- Continuous	120	°C
- Intermittent	130	°C
Thermal Classification	Class E	-
Thermal Conductivity Through Laminate	0.37	W/(mK)
Thermal Expansion in plane of Laminate	1.9	X10 ⁻⁵ /k
Specific Heat	1.5	kJ/(kgK)
Test Methods as BS 2572, where applicable.		

Rod

Technical Specification

Physical Properties	Typical Results	Units
Flexural Strength	180	MPa
Water Absorption	2.5	mg/cm ²
Insulation Resistance after immersion in water	5x10 ⁸	ohms
Axial Electric Strength in oil at 90°C	15	kV
Relative Density	1.35	-
Test Method as BS 6128		



Bay Plastics Datasheet

Round Tube Technical Specification

Physical Properties	Typical Results	Units
Axial Compressive Strength	180	MPa
Cohesion Between Layers	140	MPa
Water Absorption	2.4	mg/cm ²
Insulation Resistance after immersion in water	5x10 ⁸	ohms
Relative Density	1.35	-
Test Methods as BS EN 6128		

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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