



Crow Grade Tufnol

Sheet

Technical Specification

| Physical Properties | Typical Results | Units |
|--|-------------------|----------------------|
| Cross Breaking Strength | 130 | MPa |
| Impact Strength Notched | 13.5 | kJ/m ² |
| Compressive Strength Flatwise | 315 | MPa |
| Compressive Strength Edgewise | 185 | MPa |
| Shear Strength Flatwise | 90 | - |
| Water Absorption | | |
| - 1.6mm thick | 100 | mg |
| - 3mm thick | 120 | mg |
| - 6mm thick | 145 | mg |
| - 12mm thick | 175 | mg |
| Electrical Strength Flatwise in Oil at 90°C | | |
| - 1.6mm thick | 3.5 | MV/m |
| - 3mm thick | 2.3 | MV/m |
| - 6mm thick | 1.8 | MV/m |
| Electric Strength Edgewise in Oil at 90°C | 10 | kV |
| Insulation Resistance after immersion in water | 1x10 ⁹ | ohms |
| 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) |
| Test Methods as BS 2572, where applicable. | | |

Rod

Technical Specification

| Physical Properties | Typical Results | Units |
|--|-------------------|--------------------|
| Flexural Strength | 130 | MPa |
| Water Absorption | 3.8 | mg/cm ² |
| Insulation Resistance after immersion in water | 6x10 ⁶ | ohms |
| Axial Electric Strength in oil at 90°C | 3 | 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 | 160 | MPa |
| Cohesion Between Layers | 120 | MPa |
| Water Absorption | 3.6 | mg/cm ² |
| Insulation Resistance after immersion in water | 6x10 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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