

Swan Brand TUFNOL

Laminated paper moulded sections

Resin: Phenolic resin.
 Reinforcement: Kraft paper

Description: Swan Brand TUFNOL is a good quality electrical insulating material, similar in performance to Kite Brand TUFNOL. It is produced in solid moulded sections, such as rod, square bar, etc., to complement the Kite Brand range of sheet and hollow moulded sections (e.g. tube).

Typical uses: This grade is used wherever a rod, bar or other solid moulded section of paper based laminate is required. Items such as insulated end caps, turned spacers, mounting posts, electrode supports and insulated conveyor hanger posts often require a round rod section. Also, Swan Brand rectangular moulded bar may be preferred for certain components, such as mounting blocks, where tapped holes are drilled in several different directions.

Types available: Natural colour is available in round rod, square and rectangular moulded bar and hexagonal moulded bar.

SHAPES AND SIZES

Round Rod

Diameter: 3.2 to 38.1mm (1/8" to 1.1/2")
 Lengths approx: 1200mm

Hexagon Bar

Across flats : 0.445" to 1.100"
 (11.3 to 28.0mm)
 The across flats dimensions are machined to suit Metric, Whitworth or other standard hexagon sizes.

Rectangular Bar

Sizes 4.8 x 4.8mm to 38.1 x 88.9mm
 (3/16" x 3/16" to 1.1/2" x 3.1/2")
 Length approx: 1200mm

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SPECIFICATIONS

BRITISH STANDARDS

Round Rod	BS6128 Part 2 Type PF CP 21 & 22
Rectangular Bar	BS6128 Part 4 Type PF CP 41 & 42
Hexagon Bar	BS6128 Part 6 Type PF CP 61 & 62

APPROXIMATE WEIGHTS

Weight Formula

Rod

$$\text{Weight in kg} = \frac{1.07 \times \text{Dia}^2 \times \text{Length (all in mm)}}{1,000,000}$$

PHYSICAL PROPERTIES OF SWAN BRAND

ROUND RODS

PROPERTY	TYPICAL RESULT	UNITS
Flexural strength	150	MPa
Water absorption	1.5	mg/cm ²
Insulation resistance after immersion in water	1x10 ⁹	ohms
Axial electric strength in oil at 90°C	15	kV
Relative density	1.35	-
Thermal classification	Class E	-
Maximum working temperature*		
continuous	90	°C
intermittent	120	°C

Test methods as BS 6128.

*Users of highly stressed components at temperatures approaching the maximum are recommended to seek further advice from TUFNOL Ltd.

The information in this leaflet is believed to be correct, but completeness and accuracy are not guaranteed. The user shall be fully responsible for determining the suitability of products for the intended use. TUFNOL is a Registered Trade Mark.

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A full machining service is available for this and many other engineering plastics and composites.

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BS5750 Part 2

(ISO 9002)

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