THE COMPOSITE STORE

TECHNICAL DATA SHEET

Pultruded Glass Fibre Rod (GFRP)

Solid round pultruded rod - General technical data

PRODUCT DESCRIPTION

Solid glass-fibre-reinforced polymer (GFRP) rod manufactured by pultrusion. Continuous glass fibres are aligned longitudinally and embedded in a thermoset resin matrix. Suitable for composite fabrication, structural reinforcement, marine and industrial applications, electrical insulation and general engineering.

PROPERTY	TYPICAL / DESCRIPTIVE VALUE
Product form	Solid round pultruded rod
Reinforcement	Continuous glass fibre
Matrix	Thermoset resin; exact chemistry depends on purchased grade
Manufacturing process	Pultrusion
Appearance	Smooth solid rod; finish may vary by grade
Density	Approx. 2.1-2.2 g/cm³ for epoxy GFRP grade
Tensile modulus	Typically > 40 GPa for epoxy GFRP grade
Shear strength	Typically > 150 MPa for epoxy GFRP grade
Electrical behaviour	Non-conductive / electrically insulating
Environmental behaviour	High resistance to corrosion and many environmental agents

PROCESSING & USE

The rod may be cut, drilled or bonded using suitable tools and adhesives. Mechanical properties depend on diameter, fibre content, resin system, fibre orientation and test method. Avoid overheating during machining and use appropriate dust extraction and personal protective equipment.

STORAGE

Store dry, protected from direct sunlight, excessive heat and mechanical damage. Keep rods supported to prevent permanent deformation or surface damage.

IMPORTANT NOTE

This document is a general technical summary for pultruded glass fibre rods of the type supplied by ClipCarbono. It is not a manufacturer Certificate of Conformity. Exact values and resin chemistry should be confirmed against the specific product reference/order before structural design, certification or regulated use.