

Parameter	Details
Material Composition	Fiberglass Reinforced Plastic (FRP) with thermosetting resin (polyester, epoxy, or vinyl ester) and E-glass fiber reinforcement.
Shape	Round tube with smooth inner/outer surfaces.
Standard Diameter (OD)	25 mm – 1000 mm (customizable).
Wall Thickness	2 mm – 50 mm (varies with pressure rating).
Length	6 m (standard), customizable up to 12 m.
Tensile Strength	200-300 MPa.
Flexural Strength	150-250 MPa.
Compressive Strength	120-180 MPa.
Operating Temperature	-40°C to +120°C (depends on resin type).
Thermal Conductivity	0.3-0.4 W/m·K.
Chemical Resistance	Resistant to acids, alkalis, salts, hydrocarbons, and corrosive environments.
Pressure Rating	PN6 (0.6 MPa), PN10 (1.0 MPa), customizable up to PN16 (1.6 MPa).
Surface Finish	Smooth or textured (anti-slip) options available.
Color Options	Standard: Gray, green, yellow; customizable.
Certifications	ISO 9001, ASTM D2310, ASTM D2996.
Applications	Chemical pipelines, cable conduits, structural supports, water treatment systems.

Notes:

- **OD** values align with ISO metric and ASME/ANSI imperial standards.
- Custom dimensions (e.g., OD up to 1000 mm, wall thickness up to 50 mm) available upon request.
- Weight varies based on resin type and fiber content.