

Reinforced Thermoplastic Pipe for Petrochemical Applications

This reinforced thermoplastic pipe is designed for high-pressure, corrosion-resistant applications. It features a multi-layer construction with polyolefin inner/outer layers and high-strength fiber reinforcement, suitable for temperatures from -50 to 145 °C and pressures up to 102MPa.



ADDITIONAL IMAGES



Product Overview

Reinforced Thermoplastic Pipe (RTP)

This advanced high-pressure composite pipe features a modular three-layer design consisting of a fluid sealing inner layer, a high-strength fiber-reinforced functional layer, and a protective outer shell. Engineered for extreme durability, it offers exceptional resistance to corrosion, wear, and harsh environmental factors. Its coilable nature and extended single-root lengths significantly reduce installation time and joint requirements for industrial fluid transport.

Technical Performance

Maximum Pressure	102 MPa
Operating Temperature	-50 to 145
Service Life	100 years

Key Features

Core Advantages

- Corrosion resistant inner and outer walls
- High wear resistance (5x better than steel)
- Excellent flexibility and impact resistance
- Non-toxic and environmentally friendly
- Superior flow capacity due to smooth inner wall

Applications	Petroleum, Natural Gas, Chemicals, Mining, Refined Oil, Hot Springs
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Construction & Logistics

Connection Methods

Crimped joints • Reinforced fused sleeves • Self-flange joints

Single Root Length

150m to 1200m