

Key Features

- High chemical resistance
- Low and high temperature capability
- Resistance to weathering
- Low friction
- Electrical and thermal insulation
- Anti-stick surface

Common Applications

- Gaskets
- Packing materials exposed to chemicals
- Bearings
- Seals
- Piston rings
- Electrical insulation

Material Description

Polytetrafluoroethylene (PTFE), commonly known as Teflon, is a synthetic fluoropolymer valued for its exceptional chemical resistance, low friction, and high-temperature tolerance. Widely used in various industries, PTFE exhibits non-stick properties, making it suitable for cookware and food processing equipment. Its chemical resistance extends to harsh environments, finding use in gaskets, seals, and bearings. PTFE's high-temperature resistance also makes it suitable for electrical insulation and aerospace applications.

Mechanical Properties

Ultimate Tensile Strength	35.3 MPa
Tensile Yield Strength	20.5 MPa
Hardness	Shore D57
Elongation at Break	308%

Physical Properties

Density	0.075 lb/in ³ (2.07 g/cm ³)
Thermal Conductivity	0.263 W/m.K
Modulus of Elasticity	0.521 GPa
Melting Point	308 °C

Technical Assistance

Our knowledgeable staff, supported by our in-house team of expert metallurgists and engineers, is ready to assist you with any technical inquiries.

InstaVoxel™ – On-Demand Manufacturing Expert

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InstaVoxel's quality control system is ISO-9001 certified, and all our partners hold relevant certifications.



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