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Injection Molding

PEEK

Key Features

Stiffness • Chemical resistance • Abrasion resistance • Heat resistance > 100°C

Applications

End-use parts • Aerospace • Automotive • Electronics • Engineering • Medicine • Consumer goods

Product Description

PEEK is a high-performance polyether ether ketone (PEEK) resin known for its exceptional mechanical strength, chemical resistance, and high-temperature stability. Ideal for injection molding, this material is widely used in aerospace for high-performance components, automotive for engine and transmission parts, medical for surgical instruments and implants, electronics for connectors and insulators, and industrial applications requiring durable, wear-resistant parts.

Properties*

Tensile modulus	3,500 MPa
Tensile strength	95.1 MPa
Elongation at break	5%
Flexural strength	152 MPa
Flexural modulus	3,700 MPa
Notched Izod impact (3.18 mm)	91 J/m
Heat deflection temperature (1.80 MPa)	157°C
Density	1.3 g/cm ³
Flame retardancy (3.0 mm)	UL 94 V-0
Water absorption (24 hr)	0.10%

*Based on material ColorFast® PEEK

