

PEEK MONOFILAMENT

High Temperature • Wear Resistant
Chemical Resistant

Premium Engineering Fiber for Demanding Applications



High
Temperature
Resistance



Excellent
Chemical
Stability



High Strength
& Modulus



Wear Resistant
& Low Friction



Biocompatible
& Reliable



*Stronger Materials
Broader Possibilities*

Product Introduction

PEEK (Polyether Ether Ketone) monofilament is a high-performance engineering fiber made from PEEK resin through melt spinning. It features excellent high temperature resistance, outstanding chemical stability, superior mechanical properties, low friction, wear resistance and good biocompatibility. PEEK monofilament is widely used in filtration, industrial conveying, seals, cables, aerospace, automotive, medical devices and other demanding applications.

Available Specifications

S Type

Φ 0.10-0.30 mm



- Fine diameter
- For precision applications

M Type

Φ 0.30-1.00 mm



- General purpose
- Wide range of uses

L Type

Φ 1.00-1.80 mm



- Thick diameter
- For demanding applications

Other diameters, dtex or customized specifications are available upon request.

Typical Technical Data (Reference)

Property	S Type	M Type	L Type	Test Method
Monofilament Diameter (mm)	0.10-0.30	0.30-1.00	1.00-1.80	-
Linear Density (dtex, reference)	~ 200-1000	/	/	-
Glass Transition Temp. (Tg, °C)	≥ 143	≥ 143	≥ 143	-
Melting Point (°C)	330-345	330-345	330-345	-
Breaking Strength (N)	5-35	35-470	/	-
Elongation at Break (%)	20%-40%	20%-50%	20%-60%	-
Moisture Regain (%)	≤ 0.5	≤ 0.6	≤ 0.8	-
Dry Heat Shrinkage (200°C, %)	≤ 5	≤ 5	≤ 5	-
Appearance	Uniform color, smooth surface, free from obvious defects (custom colors available)			-

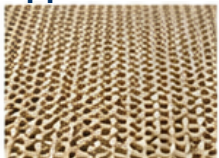
Note: The above data are reference values based on typical product specifications. Final values are subject to our factory's testing report.

Key Features

- ✓ Ultra-high temperature resistance (long-term use up to 250°C, short-term above 300°C)
- ✓ Excellent chemical resistance
- ✓ High mechanical strength and modulus
- ✓ Wear resistance and low friction
- ✓ Good radiation resistance and hydrolysis resistance
- ✓ Biocompatible (suitable for medical applications)
- ✓ Multiple specifications and custom solutions
- ✓ Stable quality and global supply

*Your Reliable
Material Partner*

Application Areas



Filtration & Sieving

High-performance filter mesh, industrial filters



Conveyor & Industrial Belts

High-temperature conveyor belts, mesh belts



Cable & Harness Protection

Electric cables, oil tubes, braided protective sleeves



Aerospace & Automotive

Lightweight components, seals, high-temperature parts



Medical Devices

Surgical sutures, implantable devices, dental orthopedics



Special Ropes & Others

High-performance ropes, composites and more

