

PPS MONOFILAMENT

High Temperature · Chemical Resistant
 Flame Retardant · Long-term Reliability

High Performance Engineering Fiber for Demanding Applications



High
Temperature
Resistance



Excellent
Chemical
Resistance



Inherent
Flame Retardancy



Mechanical
Stability



Long-term
Reliability



*Stronger Materials
 Broader Possibilities*

Product Introduction

PPS (Polyphenylene Sulfide) monofilament is a high-performance engineering fiber with excellent heat resistance, chemical resistance, and inherent flame retardancy. It maintains outstanding mechanical properties and dimensional stability in harsh environments, and is widely used in filtration, industrial conveying, electrical insulation, automotive, chemical industry and other demanding applications.

Available Specifications

Diameter Range

0.10-1.75 mm



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

Typical Forms

Smooth monofilament
 Textured monofilament (on request)
 Custom colors (natural, black, etc.)
 Customized surface treatment
 Spools, coils or cut lengths
 Other specifications available upon request

Typical Technical Data (Reference)

Property	Typical Value	Test Method
Monofilament Diameter (mm)	0.10-1.75 (various grades available)	-
Linear Density (dtex)	~ 80-2500 (depending on diameter)	-
Tensile Strength (cN/dtex)	≥ 3.5	ASTM D2256
Elongation at Break (%)	25 ± 5	ASTM D2256
Melting Point (°C)	285 ± 5	DSC
Limiting Oxygen Index (LOI) (%)	> 34	ASTM D2863
Continuous Use Temperature (°C)	190-220	-
Density (g/cm³)	1.34	ASTM D792
Moisture Regain (%)	≤ 0.1	ASTM D570
Chemical Resistance	Excellent (depending on concentration and temperature)	-
Color	Natural (light yellow), black, other colors on request	-

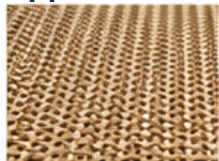
Note: The above data are typical values for reference only. Final values are subject to our factory's official TDS.

Key Features

- ✓ Excellent high temperature resistance (long-term use 190-220°C)
- ✓ Outstanding chemical resistance
- ✓ Inherent flame retardancy (LOI > 34%)
- ✓ Good mechanical strength and creep resistance
- ✓ Low moisture absorption
- ✓ Dimensionally stable
- ✓ Suitable for harsh industrial environments
- ✓ Customizable specifications, colors and surface treatments
- ✓ Stable quality and global supply

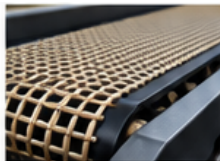
*Your Reliable
 Material Partner*

Application Areas



Filtration & Sieving

High-performance filter mesh, industrial filters



Conveyor & Industrial Belts

High-temperature conveyor belts, mesh belts



Cable & Harness Protection

Electrical cables, oil tubes, braided protective sleeves



Chemical Industry

Corrosion-resistant components, filtration and separation



Automotive & Transportation

Lightweight components, thermal & chemical resistant parts



Electrical & High-tech

Insulation, high-temperature textiles, advanced materials

