

PARA-ARAMID FILAMENT YARN

High Strength · High Modulus · High Reliability

Multiple Denier / dtex Grades Available
for Diverse Applications



High
Strength



Excellent
Heat Resistance



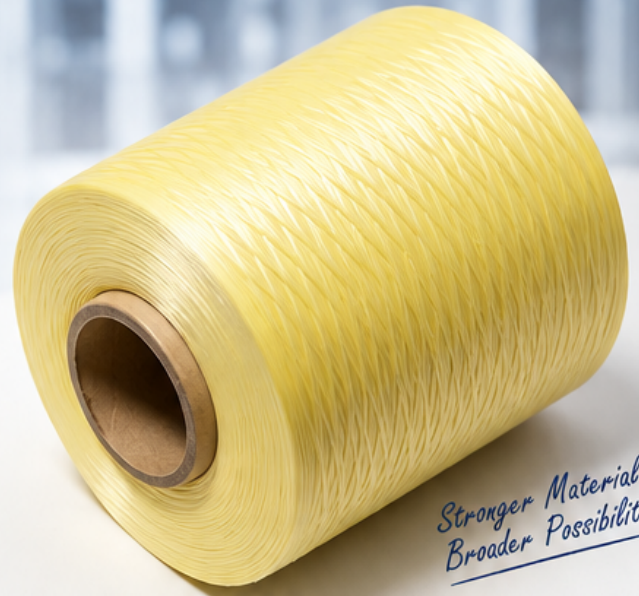
Chemical
Resistance



Inherent
Flame Retardancy



Dimensional
Stability



*Stronger Materials
Broader Possibilities*

Product Introduction

Para-aramid (poly-p-phenylene terephthalamide) filament yarn is a high-performance fiber featuring ultra-high strength, high modulus, excellent heat resistance, inherent flame retardancy and good chemical stability. It is widely used in protective equipment, ropes and cables, rubber reinforcement, friction materials, composites and other demanding applications.

Available Specifications

Fineness Range

Multiple Denier / dtex
Grades Available



Common deniers: 200D, 400D,
600D, 800D, 1000D, 1420D,
1500D, 3000D, etc.
Other specifications on request.

Filament Count

Single or multi-filament

Common options:
1f / 2f / 3f / 6f / 12f /
24f / 36f / 48f / 72f /
144f and more,
customized according to
application.

Yarn Types

Smooth filament yarn
Twisted yarn
Cabled yarn
Covered yarn
Hybrid yarn
Custom structures
available

Typical Technical Data (Reference)

Property	Standard Modulus (General Purpose)	High Modulus (HS Type)	High Tenacity (HT Type)	Test Method
Linear Density (Denier)	200-3000 (various grades available)			ASTM D1907
Linear Density (dtex)	220-3330 (various grades available)			ASTM D1907
Tensile Strength (cN/dtex)	21-24	24-26	26-28	ASTM D2256
Tensile Modulus (cN/dtex)	500-800	800-1200	500-800	ASTM D2256
Elongation at Break (%)	3.0-4.0	2.0-2.8	3.0-4.0	ASTM D2256
Heat Resistance (Long Term)	≥ 200°C	≥ 200°C	≥ 200°C	-
Decomposition Temperature	≥ 500°C	≥ 500°C	≥ 500°C	TGA
Limiting Oxygen Index (LOI) (%)	≥ 28	≥ 28	≥ 28	ASTM D2863
Moisture Regain (%)	3.0-5.0	3.0-5.0	3.0-5.0	ASTM D570
Density (g/cm³)	1.44	1.44	1.44	ASTM D792
Color	Natural yellow (standard), 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

- ✓ Ultra-high tensile strength
- ✓ High modulus and low creep
- ✓ Excellent heat and flame resistance
- ✓ Good chemical stability
- ✓ Low density (lightweight)
- ✓ Dimensional stability
- ✓ Processable into various yarn structures
- ✓ Wide range of specifications
- ✓ Samples available
- ✓ Global supply

*Your Reliable
Material Partner*

Application Areas



Protective Equipment

Bulletproof vests, helmets,
protective clothing



Ropes & Cables

Mooring ropes, winch ropes,
high-strength cables



Rubber Reinforcement

Tires, hoses, conveyor belts,
industrial rubber products



Composites

Reinforcement for aerospace,
automotive and industrial
composites



Friction Materials

Clutch facings, brake pads,
industrial friction products

