

Sinofibra Advanced Materials Co.,Ltd.

Product: SF-539 Para-aramid Continuous Filament Yarn (PPTA) — High Modulus Grade

Intended Applications: Outdoor optical fiber cable reinforcement members (strength member / yarn reinforcement) and related industrial reinforcement applications.

| PRODUCT IDENTIFICATION | | | |
|------------------------|----------------|----------------|--------------------------|
| Commercial Item | Linear Density | Nominal Denier | Form |
| SF-539-1580 | 1580 dtex | 1420D | Continuous filament yarn |
| SF-539-3160 | 3160 dtex | 2840D | Continuous filament yarn |
| SF-539-6320 | 6320 dtex | 5680D | Continuous filament yarn |
| SF-539-9480 | 9480 dtex | 8530D | Continuous filament yarn |



| TYPICAL TECHNICAL PROPERTIES | | | | |
|------------------------------|-------------|---------|----------------------|----------------------|
| Property | Test Method | Unit | SF-539-1580(Typical) | SF-539-3160(Typical) |
| Linear density | ASTM D1907 | dtex | 1615 | 3280 |
| Tenacity at break | ASTM D7269 | cN/dtex | 21.3 | 21.1 |
| Breaking strength | ASTM D7269 | N | 343.99 | 692.08 |
| Elongation at break | ASTM D7269 | % | 2.94 | 3.00 |
| Initial modulus | ASTM D7269 | GPa | 110 | 100.92 |
| Finish on yarn (oil pick-up) | ASTM D2257 | % | 1.20 | 1.00 |

Typical values are for reference only and are not to be interpreted as specification limits.

| SPECIFICATION GUIDE | | | | |
|------------------------------|-------------|---------|------------------|---------------------------|
| Property | Test Method | Unit | Specification | SF-539-1580 Specification |
| Linear density | ASTM D1907 | dtex | Nominal \pm 5% | 1580 \pm 5% (1501–1659) |
| Tenacity at break | ASTM D7269 | cN/dtex | \geq 19.5 | \geq 19.5 |
| Breaking strength | ASTM D7269 | N | N/A | \geq 308 |
| Elongation at break | ASTM D7269 | % | 1.5-3.5 | 1.5-3.5 |
| Initial modulus | ASTM D7269 | GPa | \geq 95 | \geq 95 |
| Finish on yarn (oil pick-up) | ASTM D2257 | % | 0.6–2.5 | 0.6–2.5 |

HANDING AND STORAGE

Store in a cool, dry area away from direct sunlight. Keep packages closed when not in use to minimize contamination and moisture pickup. Avoid exposure to strong oxidizing agents and aggressive chemicals. Handle packages to prevent physical damage.

DISCLAIMER

The information provided herein is based on data believed to be reliable; however, no warranty (express or implied) is made. Values shown are typical values and/or specification limits as indicated. Actual properties may vary with processing conditions, environmental exposure, and test methods. The user is responsible for determining suitability for the intended application and for ensuring compliance with applicable laws and regulations.

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TDS No.: TDS-AF539-EN | Date: 8/Jan/2026

Manufacturing site is certified to ISO 9001