

Sinofibra Advanced Materials Co.,Ltd.

Product: SF-529S Colored Para-aramid Continuous Filament Yarn (PPTA) — Dope-dyed

SF-529S Colored is a para-aramid (PPTA) continuous filament yarn produced by **dope-dyeing** (solution coloration). Color is introduced during spinning to support stable shade and efficient color coding in industrial manufacturing.

| PRODUCT IDENTIFICATION | | | |
|------------------------|--------|-----------------------|----------------|
| Commercial Item | Denier | Linear Density (dtex) | Filament Count |
| SF-529S-600D | 600 | 667 | 400F |
| SF-529S-840D | 800 | 933 | 560F |
| SF-529S-1000D | 1000 | 1110 | 667F |
| SF-529S-1500D | 1500 | 1670 | 1000F |



| TYPICAL TECHNICAL PROPERTIES | | | | |
|------------------------------|-------------|---------|------------------------|------------------------|
| Property | Test Method | Unit | SF-529V-1000D(Typical) | SF-529V-1500D(Typical) |
| Linear density | ASTM D1907 | dtex | 1120 | 1702 |
| Tenacity at break | ASTM D7269 | cN/dtex | 20.3 | 20.7 |
| Breaking strength | ASTM D7269 | N | 227.36 | 352.31 |
| Elongation at break | ASTM D7269 | % | 3.52 | 3.48 |
| Initial modulus | ASTM D7269 | GPa | 93 | 92 |
| Finish on yarn (oil pick-up) | ASTM D2257 | % | 0.92 | 0.90 |

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

| SPECIFICATION GUIDE | | | | |
|------------------------------|-------------|---------|------------------|-----------------------------|
| Property | Test Method | Unit | Specification | SF-529V-1000D Specification |
| Linear density | ASTM D1907 | dtex | Nominal \pm 5% | 1110 \pm 5% (1055–1165) |
| Tenacity at break | ASTM D7269 | cN/dtex | \geq 19.0 | \geq 19.0 |
| Breaking strength | ASTM D7269 | N | N/A | \geq 210.9 |
| Elongation at break | ASTM D7269 | % | 1.5-3.5 | 1.5-3.5 |
| Initial modulus | ASTM D7269 | GPa | \geq 85 | \geq 85 |
| Finish on yarn (oil pick-up) | ASTM D2257 | % | 0.6–1.2 | 0.6–1.2 |

HANDLING AND STORAGE

Store in original packaging in a cool, dry place, away from direct sunlight and strong oxidizing agents. Avoid contamination, moisture exposure, and mechanical damage during handling and processing.

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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Manufacturing site is certified to ISO 9001