

Sinofibra Advanced Materials Co.,Ltd.

Product: SF-539B Para-aramid Continuous Filament Yarn (PPTA) — High Modulus Value 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-539B-1580	1580 dtex	1420D	Continuous filament yarn
SF-539B-3160	3160 dtex	2840D	Continuous filament yarn
SF-539B-6320	6320 dtex	5680D	Continuous filament yarn
SF-539B-9480	9480 dtex	8530D	Continuous filament yarn



TYPICAL TECHNICAL PROPERTIES				
Property	Test Method	Unit	SF-539B-1580(Typical)	SF-539B-3160(Typical)
Linear density	ASTM D1907	dtex	1599	3220
Tenacity at break	ASTM D7269	cN/dtex	19.5	19.3
Breaking strength	ASTM D7269	N	311.81	621.46
Elongation at break	ASTM D7269	%	3.10	3.00
Initial modulus	ASTM D7269	GPa	103	99.5
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-539B-1580 Specification
Linear density	ASTM D1907	dtex	Nominal $\pm$ 5%	1580 $\pm$ 5% (1501–1659)
Tenacity at break	ASTM D7269	cN/dtex	$\geq$ 18.5	$\geq$ 18.5
Breaking strength	ASTM D7269	N	N/A	$\geq$ 292.30
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.

Sinofibra Advanced Materials Co.,Ltd.

Address: Kangtai Chuangxin Plaza, No.222, Kefa Road, Shenzhen, China

info@sinofibra.com | www.sinofibra.com

TDS No.: TDS-AF539V-EN | Date: 8/Jan/2026

Manufacturing site is certified to ISO 9001