

Sinofibra Advanced Materials Co.,Ltd.

**Product:** Water-Blocking Aramid Yarn (Water-Swellable Aramid Strength Membr  
**Product Series:** SF-WBA-Series  
**Product IDs:** SF-WBA1420



## PRODUCT DESCRIPTION

The SF-WBA-Series is an aramid yarn treated with a superabsorbent water-swella system. It is intended for use as a dielectric strength member in optical fiber cables, providing both mechanical reinforcement and dry water-blocking functionality.

## APPLICATIONS

- Dielectric strength member for optical fiber cables
- Dry (gel-free) water-blocking cable designs
- Replacement or reduction of water-blocking tapes and filling gels

## KEY FEATURES

- High tensile strength
- Outstanding flexibility
- Outstanding impact and fatigue resistance
- Excellent water-absorbing ability

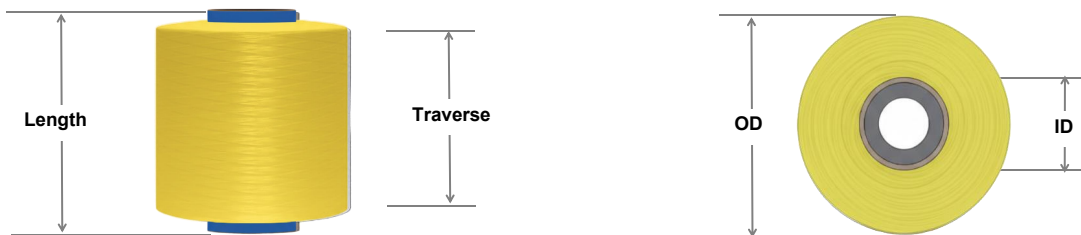
## PHYSICAL & MECHANICAL PROPERTIES

Standard laboratory conditions (unless otherwise stated): 23 ± 2 °C, 50 ± 10 % RH.

Property	Unit	Test Standard	Nom.	Min.	Max.	Specification
Linear Density	Dtex	ASTM D1907	1770	1670	1870	1670–1870
Break Strength	N	ASTM D885	310	270	—	≥270
Elongation at Break	%	ASTM D885	2.4	2.1	2.7	2.1–2.7
Modulus	Gpa	ASTM D885	—	112.0	—	≥112
LASE 0.3%	N	ASTM D885	34	26	—	≥26
LASE 0.5%	N	ASTM D885	60	51	—	≥51
LASE 1.0%	N	ASTM D885	120	103	—	≥103
Absorption Capacity	g/g	Internal method SF22-12-01	15.0	8.0	—	≥8.0

LASE definition (for clarity): Load at specified elongation (strain) during tensile test.

## PACKAGING



Tube Specs	ID	Length	Traverse	Max. OD	Surface Finish
SF94x216	94mm	216mm	185mm	270mm	rough
SF94x290	94mm	290mm	250mm	270mm	rough

## STORAGE & HANDLING

**Storage:** Keep in original sealed packaging in a clean, dry, and well-ventilated area.

**Conditions:** Temperature ≤ 30 °C, Relative Humidity (RH) ≤ 65%.

**Compliance:** RoHS and REACH compliant; free of hazardous substances.

## DISCLAIMER

The information in this TDS is based on laboratory measurements and is provided for product selection and specification development. Actual performance may vary with cable design, processing conditions, and environmental factors. Users are responsible for determining suitability for the intended application.

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

info@sinofibra.com | www.sinofibra.com