


TECHNICAL DATA SHEET

Para-Aramid Filament Twisted Yarn

PRODUCT	Para-aramid Filament Twisted Yarn	
PRODUCT CODE	SF-YF529RC-1500D	
PRODUCT DESCRIPTION	1670dtex(Nominal 1500 Denier)	
ISSUE DATE	2025/11/6	

DESCRIPTION

Product SF-YF529RC-1500D is a high-performance, twisted para-aramid continuous filament yarn with a nominal linear density of 1670 dtex (1500 Denier). Produced using advanced technology, this yarn is renowned for its exceptional strength, high modulus, and excellent thermal stability. It is specifically engineered as a reinforcement material for demanding applications in the tire and automotive industries.

KEY FEATURES & BENEFITS

High Breaking Strength & Modulus: Offers superior reinforcement for heavy-duty applications, ensuring tire stability and load-bearing capacity.

Superior Fatigue Resistance: Withstands repeated stress cycles under high loads, contributing to a long and reliable tire service life.

Excellent Thermal Stability: Retains critical mechanical properties at high operating temperatures, crucial for commercial vehicle tires.

Optimized for Adhesion: Designed for robust bonding with rubber after RFL treatment.

PHYSICAL PROPERTIES

Property	Test Method	Unit	Specification	Test Result	Conformity
Linear Density	ASTM D1577	dtex	1670 ± 50(1620-1720)	1688	Pass
Tenacity	ASTM D2256	cN/dtex	≥ 20.1	20.5	Pass
Breaking Strength	ASTM D2256	N	≥ 335	347.5	Pass
Breaking Elongation	ASTM D2256	%	3.5-4.5	4.0	Pass
Twist	ISO 2061	tpm	90±10	90	Pass
Twist Direction	Visual	-	-	Z	-

Remarks:

This Certificate of Analysis is generated for the specific lot number mentioned.

The material is a continuous filament yarn made from poly (p-phenylene terephthalamide).

Store in a dry, cool environment away from direct sunlight.

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Approved by: 

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