


# TECHNICAL DATA SHEET

## Para-Aramid Filament Twisted Yarn

PRODUCT	Para-aramid Filament Twisted Yarn	
PRODUCT CODE	SF-YF529RC-1000D	
PRODUCT DESCRIPTION	1110dtex(Nominal 1000 Denier)	
ISSUE DATE	2025/11/6	

### DESCRIPTION

Product SF-YF529RC-1000D is a high-performance, twisted para-aramid continuous filament yarn with a nominal linear density of 1110 dtex (1000 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, particularly for high-performance passenger car tires.

### KEY FEATURES & BENEFITS

**High Strength & Modulus:** Provides robust reinforcement and dimensional stability, controlling tire growth at high speeds.  
**Superior Fatigue Resistance:** Withstands repeated stress cycles, contributing to a longer and more reliable tire service life.  
**Excellent Thermal Stability:** Retains critical mechanical properties at high operating temperatures, enhancing tire safety and performance.  
**Optimized for Adhesion:** Designed for robust bonding with rubber compounds after a standard RFL dipping process.

### PHYSICAL PROPERTIES

Property	Test Method	Unit	Specification	Test Result	Conformity
Linear Density	ASTM D1577	dtex	1060 ± 1210(1160-1210)	1123	Pass
Tenacity	ASTM D2256	cN/dtex	≥ 19.8	20.2	Pass
Breaking Strength	ASTM D2256	N	≥ 220	227.6	Pass
Breaking Elongation	ASTM D2256	%	3.5-4.5	3.9	Pass
Twist	ISO 2061	tpm	120±10	120	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:



Date:

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