



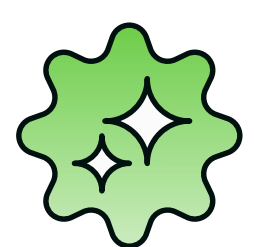
TURBOSTRAND® 4595 SINGLE-END ROVING

Solution for dependable processing with PA&PC LFT and CFRT

Type 30® TurboStrand® 4595 single-end roving is specifically designed for excellent processing and handling for LFT (long fiber reinforced thermoplastic) & CFRT (continuous fiber reinforced thermoplastics) polyamide and polycarbonate applications.

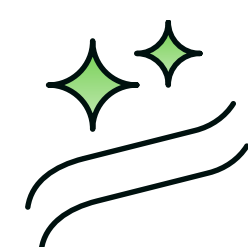
- ✓ Manufactured using state-of-the-art Type 30® Single-End-Roving technology.
- ✓ Produced via statistical process control in manufacturing facilities certified to ISO 9001.
- ✓ Excellent compatibility with polyamide and polycarbonate.
- ✓ Produced with Advantex® corrosion-resistant E-CR glass.

Product Benefits



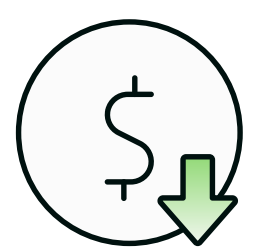
Enhanced Mechanical Performance

- TurboStrand® 4595 offers enhanced composite tensile, flexural, and impact performance. Providing maximum part strength and long part service life.



Excellent Impregnation & Dispersion

- High-quality dispersion within the pellet and final molded part, creating excellent surface appearance and part strength.



Improved Manufacturing Economics

- Dependable internal and external unwinding process for less downtime.
- Reduction in fuzz generation for easier processing and less downtime for cleanup, also resulting in a smoother finished product.



Multi-Process Compatible

- Suitable for LFT-G, D-LFT, and CFRT processes and pellet manufacturing, and choppable to desired length.



Enhanced Service Life

- Advantex® glass helps fight corrosion, enhancing service life compared to standard E-glass.

Application

TurboStrand® 4595 is ideal for polyamide and polycarbonate long-fiber thermoplastic applications with LFT-G, D-LFT, and CFRT. Designed for the manufacturing of structural automotive applications, including instrument panel framework and EV battery cover. Potential applications for TurboStrand® 4595 is TP fabrics for wind blades and RTP (reinforced thermoplastic pipes), which can be recycled and economical.

Technical Characteristics

PRODUCT	FILAMENT DIAMETER (μm)	LINEAR DENSITY (tex)	LOSS ON IGNITION (%)	MOISTURE (%)
Method of measurement	ISO 1888	ISO 1889	ISO 1887	ISO 3344
TurboStrand® 4595 2400	17	2400 ± 120	0.40 ± 0.15	<0.05
TurboStrand® 4595 1200	17	1200 ± 60	0.40 ± 0.15	<0.05

This information and data contained herein is offered solely as a guide in the selection of product. Published product values are typical performance estimates and may vary by manufacturing location, production run, testing method, and application. Products are tested as part of our quality processes and manufactured to applicable specifications. Actual performance may vary. We reserve the right to update published values, specifications, and product characteristics without notice. All values are provided for informational purposes only and do not guarantee performance. Customers are responsible for determining the suitability of the product for their intended use and should conduct appropriate testing and evaluation. Except as otherwise provided in applicable sales terms & conditions, no warranties of any kind, express or implied, including those of merchantability and fitness for a particular purpose.

Packaging

PALLET DIMENSIONS						
PACKAGING	PALLET HEIGHT (CM)	PALLET LENGTH (CM)	PALLET WIDTH (CM)	PALLET WEIGHT (NET, KG)	PACKAGES PER PALLET	NUMBER OF LAYERS
No Tube	~ 125	115	115	~ 1200	64	4
No Tube	~ 97	115	115	~ 900	48	3
Thicker Tube	~100	115	115	~ 900	48	3

PACKAGE DIMENSIONS						
PACKAGE HEIGHT (CM)		PACKAGE OUTSIDE DIAMETER (CM)	PACKAGE INSIDE DIAMETER (CM)	PACKAGE WEIGHT (KG, WEIGHT% IN PALLET)		
<28.0		<30.0	>16.2 (no tube)	~16.2 (thick tube)	16~20 (70%)	10~16 (25%) 5~10 (5%)

Labeling

Each individual package is labeled with information including: product name, tex/yield, producing plant, and production date.

Storage

Unless otherwise specified, it is recommended that glass fiber products be stored in a cool, dry area. Recommended long-term storage conditions are temperatures between 10°C and 35°C and relative humidity between 35% and 85%. While temporary deviations may occur during storage or transportation, product performance can be confirmed through routine verification testing if exposure outside these conditions has occurred for an extended period. Glass fiber products should remain in their original packaging until the point of use. To help prevent condensation, keep product in its original, unopened packaging and allow it to naturally acclimate to the workshop temperature for at least 24 hours before opening or use. Packaging is not waterproof and should be protected from weather and other sources of moisture. Although fluctuations may occur during transportation, handling, and temporary storage, products should be maintained within the recommended storage ranges after receipt to help preserve product performance. A defined shelf life has not been established for the product when stored under recommended conditions. However, retesting is recommended after three years from the date of manufacture to help ensure optimum performance.

MAKE
MORE
POSSIBLE™

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