



TURBOSTRAND™ 4595

SOLUTION FOR DEPENDABLE PROCESSING WITH PA&PC LFT AND CFRT

TurboStrand™ 4595 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 Owens Corning® Type 30™ Single-End-Roving technology.

- Excellent compatibility with polyamide and polycarbonate.
- Produced via statistical process control in manufacturing facilities certified to ISO 9001.
- Produced with Advantex® corrosion-resistant E-CR glass by Owens Corning.

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 mold, 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 application for TurboStrand™ 4595 is TP fabrics for wind blades and RTP (reinforced thermoplastic pipes), which can be recycled and economical.

Availability
(Standard Reference)
& Technical
Characteristics
(Nominal Values)

| TEX | FILAMENT DIAMETER (μ) | LOSS ON IGNITION (%) | MOISTURE (% MAX) | MANUFACTURING REGION |
|------|--------------------------|----------------------|---------------------|-------------------------|
| 2400 | 17 | 0.40% | 0.05% | Asia Pacific |
| 1200 | 17 | 0.40% | 0.05% | Asia Pacific |

Packaging and
Palletization
(Standard Reference)

| 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 | ~1,200 | 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) | | 16~20 (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 to store glass fiber products in a cool, dry area. The glass fiber products must remain in their original packaging material until the point of usage. The product should be stored in the workshop in its original packaging for 48 hours prior to its utilization, to allow it to reach the workshop temperature condition and prevent condensation, especially during the cold season. The packaging is not waterproof. Be sure to protect the product from the weather and other sources of water.

When stored properly, there is no known shelf life to the product, but retesting is advised after two years from the initial production date to ensure optimum performance.



Americas

Owens Corning Composite
Materials, LLC
One Owens Corning Parkway
Toledo, OH 43659 USA
1-800-GET-PINK®

Europe

European Owens Corning
Fiberglas Sprl.
166 Chaussée de la Hulpe
B-1170 Brussels
Belgium
+32 3 674 8211

Asia Pacific

Owens Corning Shanghai
Regional Headquarters
40/F, Pudong Kerry Parkside,
115 Fang Dian Road, Pudong,
Shanghai, 201204, China
+86-21-6101 9666

<https://www.owenscorning.com/composites>