



# SE4805 ENGINEERED FOR EFFICIENCY

SE4805 Type 30<sup>®</sup> is a single-end roving engineered for compounders aiming to boost productivity through enhanced processing and handling. This product is specifically tailored for long-fiber thermoplastic (LFT) applications using polypropylene and other polyolefin resin systems.

- Designed for polypropylene-based long-fiber thermoplastics.
- Suitable for polyolefins including PP, PE, and HDPE resin systems.
- Manufactured with Owens Corning's patented Advantex<sup>®</sup> E-CR glass, offering outstanding corrosion resistance.
- Produced in ISO 9001-certified facilities for consistent quality and performance.

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## Product Benefits

### Excellent Processing

Smooth internal and external unwinding with minimal fuzz generation ensures cleaner operations and contributes to improved equipment uptime.

### High Compatibility and Dispersion

A specially formulated sizing ensures strong adhesion with polypropylene and other polyolefins. This enables wet-out and uniform glass fiber dispersion, supporting consistent mechanical performance in finished parts.

### Multi-Process Versatility

Engineered for high performance across various thermoplastic processing methods, including: Long Fiber Thermoplastic – Granule (LFT-G), Direct Long Fiber Thermoplastic (D-LFT), and Continuous Fiber Reinforced Thermoplastic (CFRT).

### Enhanced Durability with Advantex<sup>®</sup> Glass

Produced using Owens Corning's patented Advantex<sup>®</sup> E-CR glass, which combines the mechanical and electrical performance of traditional E-glass with superior resistance to acid corrosion, extending the service life of composite parts.

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## Application

SE4805 is an advanced member of the Type 30<sup>®</sup> single-end roving family, well-suited for the production of structural and semi-structural components in the automotive industry, such as front-end modules, seat carriers, and door modules. Beyond automotive applications, SE4805 also supports a wide range of uses in consumer goods, household appliances, and power tools, delivering strength, durability, and processing efficiency across diverse end-use markets.

## Mechanical Properties & Performance Testing

GLASS CONTENT (%)	TENSILE MODULUS (Mpa)	TENSILE STRENGTH (Mpa)	FLEXURAL MODULUS (Mpa)	FLEXURAL STRENGTH (Mpa)	IZOD IMPACT NOTCHED (kJ/m <sup>2</sup> )
	ISO-527 4	ISO-527 4	ISO 178	ISO 178	ISO 180
20%	5100	93	4750	138	20
47,4%	11264	158.2	10112	216.6	44.1

Note: Tested at lab condition in Owens Corning facility. Loading in a standard PP resin and LFT pultrusion process

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

TEX	YIELD	FILAMENT DIAMETER (μ)	LOSS ON IGNITION (%)	MOISTURE (% MAX)
2400	207	17	0.35%	0.05%
1200	413	17	0.35%	0.05%

## Packaging

Rovings are available in 20 kg single-end packages, designed for internal pull. Packages per pallet: 48 to 64, layers per pallet: 3 to 4. Pallets are stretch-wrapped for load stability. Pallets are available in bulk pallet packaging format and are manufactured in Asia Pacific plants for global export.

## 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 three years from the initial production date to ensure optimum performance.

## ISO Standards

SE4805 single-end roving is manufactured in conformity with the following standards: ISO 2797, NF B38151 and DIN 61855.

# MAKE MORE POSSIBLE™

### Americas

**Owens Corning Composite Materials, LLC.**  
One Owens Corning Parkway  
Toledo, Ohio, USA 43659  
1-800-GET-PINK™

### Europe

**European Owens Corning Fiberglas Sprl.**  
166 Chaussée de La Hulpe  
B-1170 Brussels, Belgium  
+32 2 674 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>

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