



# SE4850 REDEFINING PERFORMANCE IN D-LFT PP

SE4850 single-end Type 30™ roving represents a compelling solution for polypropylene in direct long fiber thermoplastics (D-LFT) applications where improved performance and manufacturing economics is required.

- Produced with patented Advantex® corrosion resistant E-CR glass by Owens Corning.
- Compatible with polyolefins: PP, PE, and HDPE resin systems.

## SPECIFICALLY FOR USE IN DIRECT LONG FIBER THERMOPLASTIC (D-LFT) PROCESSES

### Product Benefits

- Improved resistance to fuzz generation for easier processing and improved housekeeping
- Reduced strand stiffness for easier splaying
- Increased lubricity for lower strand tension
- Improved splice tensile strength for enhanced package-to-package transfer and improved line efficiencies
- Outstanding compatibility with PP for better wet-out and dispersion
- Optimized adhesion to PP to meet or exceed all mechanical performance needs

Up to  
**80% REDUCTION**  
in fuzz generation

Up to  
**40% IMPROVEMENT**  
in glass dispersion

Up to  
**80% INCREASE**  
in splice strength

Up to  
**80% INCREASE**  
in impact performance

Data Sources: Mech. prop.: 30% Glass Content; compression molding, Fraunhofer Institute Molding  
Owens Corning Internal Testing—Granville, Q4 2014  
Fuzz: vs. other DLFT reinforcements, Owens Corning internal tests—Ibaraki  
Glass dispersion: vs. Competitor product, Owens Corning Granville and Ibaraki Testing  
Splice strength: vs. Owens Corning historic standard, Owens Corning internal tests—Ibaraki

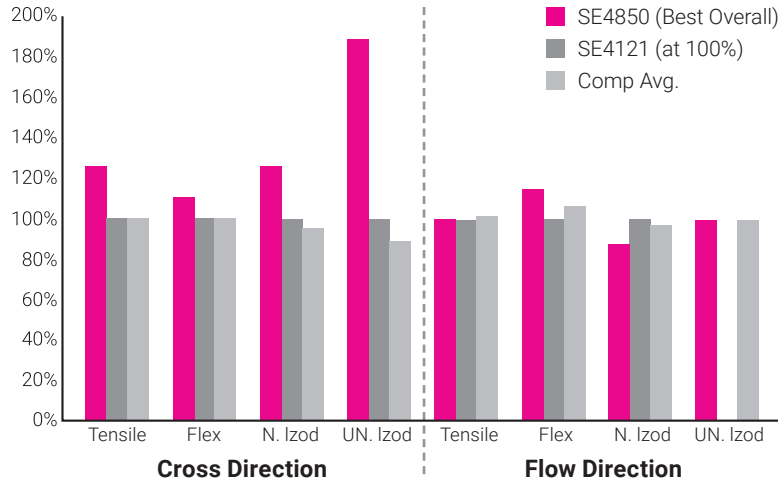
### Applications

SE4850 product is designed for use in polypropylene direct LFT (D-LFT) processes where the glass strand is fed directly into the compounding extruder. It is used for the manufacturing of structural and semi-structural complex automotive applications such as front-end modules, seat carriers, and door modules while also being used in a variety of non-automotive applications for consumer goods, building materials, and recreational vehicles.

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

TEX	YIELD	FILAMENT (μ)	LOSS ON IGNITION (%)	MOISTURE (% MAX)	MANUFACTURING REGION
2400	207	17	0.40%	0.05%	N. America; Europe; Asia Pacific
4400	113	23	0.40%	0.05%	Asia Pacific
4800	103	24	0.40%	0.05%	Asia Pacific
4800	103	17	0.40%	0.05%	Asia Pacific

## Mechanical Properties



Outstanding mechanical properties deliver up to **80% INCREASE** in impact strength

Potential for **reduced wall thickness and/or reduced use of coupling agent** for comparable end use performance

Data source: 30% glass content; compression molding. Fraunhofer institute molding; Owens Corning internal Testing, Granville, Q4 2014.

## Packaging and Palletization (Standard Reference)

PALLET DIMENSIONS	RANGE OF PACKAGING
Pallet Height (cm)	≈100-130
Pallet Length (cm)	≈110-115
Pallet Width (cm)	≈110-115
Pallet Weight, net (kg)	≈900-1200
Packages per Pallet	48-64
Layer per Pallet	3-4

Rovings are available in a single-end internal-pull package. Each pallet weighs about 1 ton and can be packaged in bulk or Creel-Pak™ packaging format. Pallets are stretch wrapped for load stability and for protection during transport. Full doffs are available in weights between 15 kg (33 lb) and 25 kg (55 lb) and can be packaged in bulk or Creel-Pak™ format. All individual packages are wrapped with Tack-Pak™ packaging to aid package run-out and transfer. Packaging may vary by region. More information is available in the Customer Acceptance Standards.

## 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.

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