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

<table>
<thead>
<tr>
<th>Benefit</th>
<th>Improvement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Improved resistance to fuzz generation for easier processing and improved housekeeping</td>
<td>Up to 80% reduction in fuzz generation</td>
</tr>
<tr>
<td>Reduced strand stiffness for easier splaying</td>
<td>Up to 40% improvement in glass dispersion</td>
</tr>
<tr>
<td>Increased lubricity for lower strand tension</td>
<td>Up to 80% increase in splice strength</td>
</tr>
<tr>
<td>Improved splice tensile strength for enhanced package-to-package transfer and improved line efficiencies</td>
<td>Up to 80% increase in impact performance</td>
</tr>
<tr>
<td>Outstanding compatibility with PP for better wet-out and dispersion</td>
<td>Up to 40% improvement in glass dispersion</td>
</tr>
<tr>
<td>Optimized adhesion to PP to meet or exceed all mechanical performance needs</td>
<td>Up to 80% increase in impact performance</td>
</tr>
</tbody>
</table>

**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)

<table>
<thead>
<tr>
<th>TEX</th>
<th>YIELD</th>
<th>FILAMENT (µ)</th>
<th>LOSS ON IGNITION (%)</th>
<th>MOISTURE (% MAX)</th>
<th>MANUFACTURING REGION</th>
</tr>
</thead>
<tbody>
<tr>
<td>2400</td>
<td>207</td>
<td>17</td>
<td>0.40%</td>
<td>0.05%</td>
<td>N. America; Europe; Asia Pacific</td>
</tr>
<tr>
<td>4400</td>
<td>113</td>
<td>23</td>
<td>0.40%</td>
<td>0.05%</td>
<td>Asia Pacific</td>
</tr>
<tr>
<td>4800</td>
<td>103</td>
<td>24</td>
<td>0.40%</td>
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<td>Asia Pacific</td>
</tr>
</tbody>
</table>

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

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 20 kg (44 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.

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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### PALLET DIMENSIONS

<table>
<thead>
<tr>
<th>PACKAGING</th>
<th>PALLET HEIGHT (CM)</th>
<th>PALLET LENGTH (CM)</th>
<th>PALLET WIDTH (CM)</th>
<th>PALLET WEIGHT (NET, KG)</th>
<th>PACKAGES PER PALLET</th>
<th>NUMBER OF LAYERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Tube</td>
<td>~125</td>
<td>115</td>
<td>115</td>
<td>~1200</td>
<td>64</td>
<td>4</td>
</tr>
<tr>
<td>No Tube</td>
<td>~97</td>
<td>115</td>
<td>115</td>
<td>~900</td>
<td>48</td>
<td>3</td>
</tr>
<tr>
<td>Thicker Tube</td>
<td>~200</td>
<td>115</td>
<td>115</td>
<td>~900</td>
<td>48</td>
<td>3</td>
</tr>
</tbody>
</table>

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### Mechanical Properties

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

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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

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