



SE4121 HP HIGHER MECHANICAL PERFORMANCE

SE4121 HP single-end Type 30™ roving represents a compelling higher performance solution for Polypropylene Long Fiber Thermoplastics (LFT-G and D-LFT) applications where excellent mechanical properties and hydrolysis resistance are required.

- Produced with patented “High Performance” glass by Owens Corning (OC HP) the product provides superior mechanical properties with the excellent corrosion resistance expected from our Advantex® formulations.
- Compatible with Polyolefins: PP, PE and HDPE resin systems.

Product Benefits

For Compounders

2.5%

potential weight
reduction in compound.

For OEMs

9%

weight **reduction** by
reducing part thickness.

Lightweighting

- 9% weight reduction by reducing LFTP part thickness – ideal for automotive lightweighting.
- 2.5% potential weight reduction in LFTP compound.

Superior Glass Dispersion/Increased Part Strength

- Outstanding compatibility with Polyolefins, enabling better wet-out, uniform glass dispersion and potential higher glass loading.
- Optimized adhesion to the polymer matrix offering excellent mechanical properties to meet stringent end-use requirement.

Enhanced Service Life

- Like Advantex glass, HP glass helps fight corrosion, enhancing service life compared to standard E-Glass.

Application

The SE4121 product is designed for use in all LFT-G (compounded pellets) and D-LFT (direct compounding and molding) processes. It is used for the manufacturing of structural and semi-structural automotive applications including front-end modules, seat carriers and door modules, as well as a variety of consumer goods, appliances and power tools.

Mechanical Properties

Data generated using production material SE 4121 2400 Tex (207 Yield).

TENSILE STRENGTH	TENSILE MODULUS	FLEXURAL STRENGTH	FLEXURAL MODULUS	IMPACT - NOTCHED CHARPY	IMPACT UNNOTCHED CHARPY
+17%	+12%	+12%	+9%	+23%	+16%

Note: Data generated using production SE 4121 HP and standard SE 4121 HP for comparison. Both products were 2400 tex with 17 µm fibers, and were tested at 30% glass loading in a standard PP resin formulation.

Availability

TEX	YIELD	FILAMENT DIAMETER (µ)	LOSS ON IGNITION (%)	MOISTURE (% MAX)
2400	207	17	0.55	0.05

Packaging

Rovings are available in 25 kg single-end internal-pull packages. Pallets are stretch wrapped for load stability. Pallets are available in bulk pallet packaging format, and are manufactured in India for export globally.

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 insure optimum performance.



Americas

Owens Corning Composite Materials, LLC.

One Owens Corning Parkway
Toledo, Ohio, USA 43659
1-800-GET-PINK®

Europe

European Owens Corning Fibreglas 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> | Composites@owenscorning.com

This information and data contained herein is offered solely as a guide in the selection of product. We believe this information to be reliable, but do not guarantee its applicability to the user's process or assume any responsibility or liability arising out of its use or performance. The user agrees to be responsible for thoroughly testing any application of the product to determine its suitability. Because of numerous factors affecting results, we make no warranty of any kind, express or implied, including those of merchantability and fitness for a particular purpose. Statements in this publication shall not be construed as representations or warranties or as inducements to infringe any patent or violate any law, safety code or insurance regulation. We reserve the right to modify this document without prior notice.

Pub. No. 10024447. SE4121 HP Data Sheet. December 2020. THE PINK PANTHER™ & © 1964–2020 Metro-Goldwyn-Mayer Studios Inc. All Rights Reserved. © 2020 Owens Corning. All Rights Reserved.