



SE4121 ROBUST PERFORMANCE IN HARSH PROCESSING ENVIRONMENTS

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

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

Product Benefits

Compounding Line Efficiency

- No catenary and high resistance to fuzz generation equate to low cleanup & high machine efficiencies.

Multi-process Compatible

- Suitable for all D-LFT and LFT-G processes and choppable to desired length.

Mechanical Performance

- Optimal adhesion to the Polyolefin resin matrix provides excellent dry-as-molded mechanical properties and hydrolysis resistance.

Excellent Impregnation & Dispersion

- Both D-LFT and LFT-G processes show excellent dispersion within the final parts.

Enhanced Service Life

- Advantex® glass helps fight corrosion, extends 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.

Availability

TEX	YIELD	FILAMENT DIAMETER (μ)	LOSS ON IGNITION (%)	MOISTURE (% MAX)	MANUFACTURING REGION
1100	450	16	0.55	0.05	N. America
2200	224	16	0.55	0.05	N. America
2400	206	17	0.55	0.05	N. America, Asia Pacific
2800	177	18	0.55	0.05	Asia Pacific

Mechanical Properties

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

PELLET (12 MM)	TENSILE STRENGTH (MPa)	FLEXURAL STRENGTH (MPa)	FLEXURAL MODULUS (MPa)
PP resin + Glass content 50%	189	282	11447

Test results will vary by Process and Formulation.

Packaging

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. 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 insure optimum performance.



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