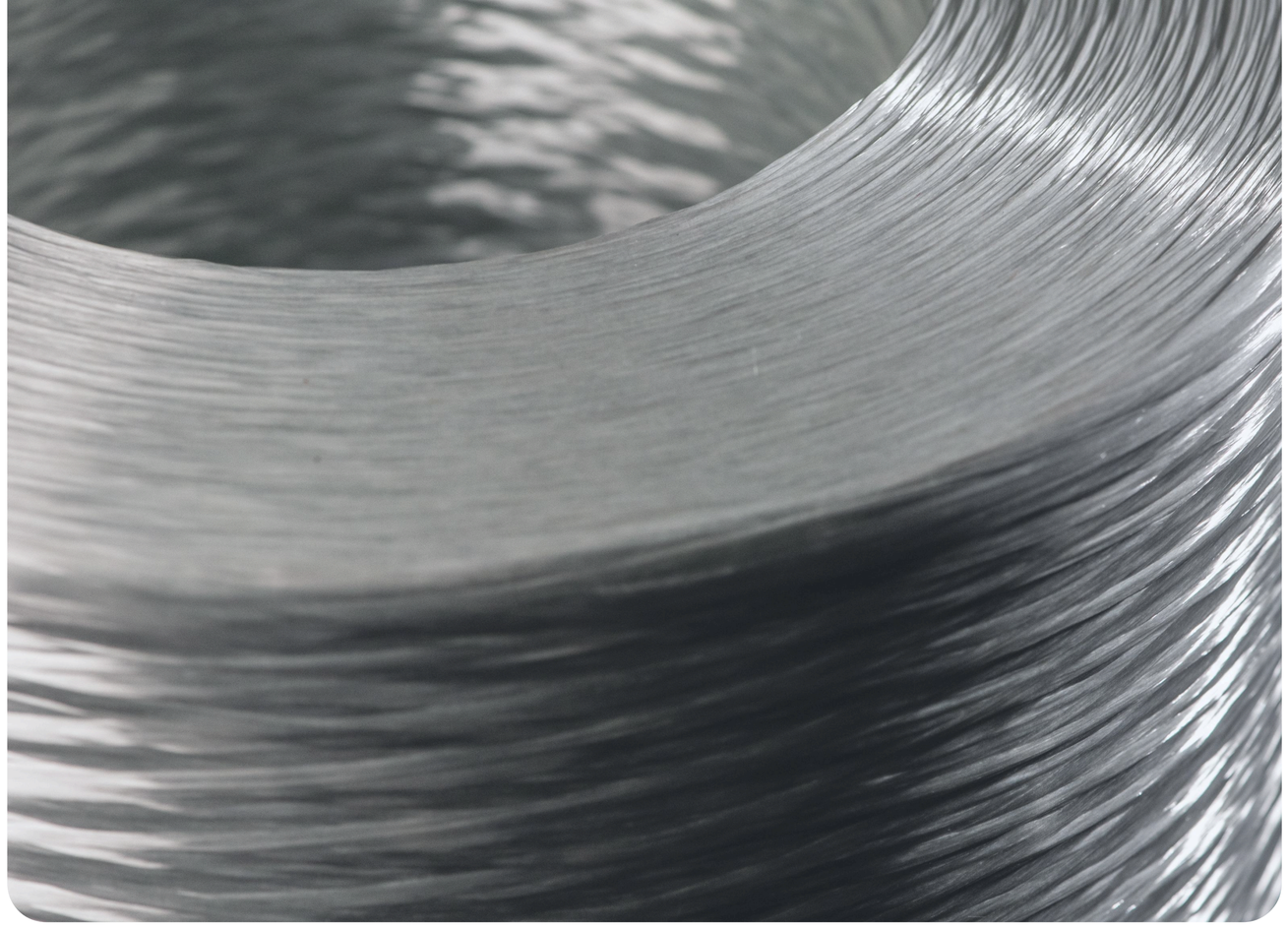
Original Composites & Fiberglass

HP SE4849 SINGLE-END ROVING

Higher mechanical performance



Type 30® HP SE4849 single-end roving represents a compelling solution for compounders seeking improved productivity through increased line speed, and the potential for higher glass loadings made possible with excellent dispersion.

- Produced with patented higher performance glass, 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

Superior Glass Dispersion/Increased Part Strength

- Outstanding compatibility with Polyolefins, enabling better wet-out, uniform glass dispersion, and potentially 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.

Lightweighting

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

For Compounders
2.5%
potential weight **reduction** in compound.

For OEMs
9%
weight **reduction** by reducing part thickness.

Application

HP SE4849 product is designed for use in LFT-G (pellets) Polyolefin (primarily PP) hot-melt compounding processes 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. HP SE4849 can also be used in CFRT (Continuous Fiber Reinforced Plastic) tapes for structural applications where the performance characteristics of a continuous unidirectional glass reinforcement can significantly improve end-use performance.

Mechanical Properties & Performance Testing

TENSILE STRENGTH	TENSILE MODULUS	FLEXURAL STRENGTH	FLEXURAL MODULUS	IMPACT — NOTCHED CHARPY I	IMPACT — UNNOTCHED CHARPY
+16%	+10%	+7%	+3%	+22%	+9%

Note: Data generated using production HP SE4849 and standard SE4849 for comparison. Both products were 2400 tex with 17 µm fibers, and were tested at 30% glass loading in a standard PP resin formulation.

HP SE4849 | LONG FIBER THERMOPLASTICS | OCTOBER 2026

Availability & Technical Characteristics

TEX	YIELD	FILAMENT DIAMETER (µm)	LOSS ON IGNITION (%)	MOISTURE (% MAX)
1100	450	16	0.40%	0.05%
2400	207	17	0.40%	0.05%
4400	113	23	0.40%	0.05%
4800	103	24	0.40%	0.05%

Packaging

Rovings are available in 20 kg single-end, internal pull. Pallet dimensions 16x4 rovings. 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 that glass fiber products be stored in a cool, dry area. Recommended long-term storage conditions are temperatures between 10°C and 35°C and relative humidity between 35% and 85%. While temporary deviations may occur during storage or transportation, product performance can be confirmed through routine verification testing if exposure outside these conditions has occurred for an extended period. Glass fiber products should remain in their original packaging until the point of use. To help prevent condensation, keep product in its original, unopened packaging and allow it to naturally acclimate to the workshop temperature for at least 24 hours before opening or use. Packaging is not waterproof and should be protected from weather and other sources of moisture. Although fluctuations may occur during transportation, handling, and temporary storage, products should be maintained within the recommended storage ranges after receipt to help preserve product performance. A defined shelf life has not been established for the product when stored under recommended conditions. However, retesting is recommended after three years from the date of manufacture to help ensure optimum performance.

ISO Standards

HP SE4849 single-end roving is manufactured in conformity with the following standards: ISO 2797, NF B38151 and DIN 61855.

MAKE MORE POSSIBLE™

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