

HP SE4805 SINGLE-END ROVING

Higher mechanical performance

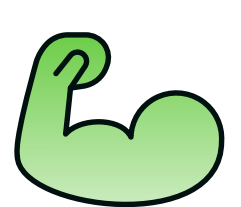


Type 30® HP SE4805 single-end roving is specifically designed as a higher performance solution for compounders seeking increased productivity through improved processing and handling characteristics, and excellent compatibility in Polypropylene LFT applications in manufacturing facilities certified to ISO 9001.

✓ 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



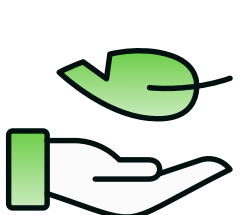
Superior Glass Dispersion/Increased Part Strength

- 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.



This information and data contained herein is offered solely as a guide in the selection of product. Published product values are typical performance estimates and may vary by manufacturing location, production run, testing method, and application. Products are tested as part of our quality processes and manufactured to applicable specifications. Actual performance may vary. We reserve the right to update published values, specifications, and product characteristics without notice. All values are provided for informational purposes only and do not guarantee performance. Customers are responsible for determining the suitability of the product for their intended use and should conduct appropriate testing and evaluation. Except as otherwise provided in applicable sales terms & conditions, no warranties of any kind, express or implied, including those of merchantability and fitness for a particular purpose.

Application

HP SE4805 is an advanced member of the Type 30® roving family and specially designed for polypropylene long-fiber thermoplastic applications with LFT-G (pultrusion), D-LFT, and CFRT (Continuous Fiber Reinforced Thermoplastics), 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 SE4805 is also optimized for use 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
+13%	+9%	+10%	+8%	+19%	+14%

Note: Data generated using production HP SE4805 and standard SE4805 for comparison. Both products were 2400 tex with 17 µm fibers, and were tested at 30% glass loading in a standard PP resin formulation.

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Availability & Technical Characteristics

TEX	YIELD	FILAMENT DIAMETER (µm)	LOSS ON IGNITION (%)	MOISTURE (% MAX)	MANUFACTURING REGION
1200	413	17	0.35%	0.05%	Asia Pacific
2400	207	17	0.35%	0.05%	Asia Pacific

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 SE4805 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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