



## TECHNICAL DATA SHEET

### ChopVantage® HP 3299

**Application:** ChopVantage® HP 3299 is suitable for use in all polypropylene systems and was developed for applications that require brilliant whiteness and high mechanical properties. This product has been designed for components in the appliance market, where color characteristics are critical. ChopVantage® HP 3299 exhibits excellent performance in heat aging as well as hot detergent resistance. The new chemistry of ChopVantage® HP 3299 has proven capable to meet requirements for mechanical properties, but with a lower quantity of chemical coupling agent than other existing commercially available products.

- **Compatible with a wide range of Polypropylene resin systems.**
- **Superior dry flow performance**
- **Provides uniform dispersion during the compounding operation**
- **Offers an excellent white color in natural grade compounds**
- **Excellent color stability in hot detergent testing and heat aging testing**
- **Provides an optimum balance of sizing functions.**

#### PRODUCT DESCRIPTION

Type of Fiber	E-Glass (ASTM D 578-98, paragraph 4.2.2)
Fiber Diameter, nominal $\mu\text{m}$	13.7
Standard Cut Length	3.2 mm (1/8")

#### PROPERTY INFORMATION

Property <sup>a,b</sup>	Unit	Typical Value, Polypropylene Homopolymer	Typical Value Polypropylene Chemically Coupled	ISO Method
Tensile Strength	Mpa	83	98	ISO 527
Tensile Elongation	%	2.2	3.4	ISO 527
Flexural Strength	Mpa	114	138	ISO 178
Flexural Modulus	Gpa	6400	6700	ISO 178
Izod Impact	$\text{kJ/m}^2$	8.0	14	ISO 180
Unnotched Impact	$\text{kJ/m}^2$	27	50	ISO180
Charpy : Notched	$\text{kJ/m}^2$	9.0	13	ISO 179
Charpy: Unnotched	$\text{kJ/m}^2$	29	57	ISO 179
Glass Content	% by wt.	30	30	ISO 1172

a. Data was obtained at room temperature from injection molded test bars. Twin-screw extrusion compounding with downstream addition of glass fibers was used to produce the molding granules. Values should be considered as guides only, which may vary due to processing differences.

b. Injection molding was performed using ISO 294-1 standard.

**Storage:** These products should be stored at room temperature and at a relative humidity of 65% +/- 10%. To avoid problems with humidity or static electricity, the glass product should be conditioned in the working area prior to use.

**Caution:** To avoid the possibility of potential injury, maintain column stability by limiting pallet stacking to two high as noted on individual shipping container.