



TECHNICAL DATA SHEET

ChopVantage® HP 3660

Application: ChopVantage® HP 3660 chopped strand is designed to reinforce a wide range of nylons and is intended for use in several cross-functional nylon applications. Superior whiteness, outstanding resistance to ethylene glycol-derived engine coolants and 'next generation' performance in impact modified resins have all been realized. ChopVantage® HP 3660 is ideal for under-the-hood cooling system components such as radiator end tanks, as well as intake manifolds incorporating coolant cross-over channels.

- Suitable for use in a wide range of nylons: 6, 6/6, 4/6, 6/10, 6/12, PPA; as well as in polycarbonate at low glass levels
- Superior dry flow performance which contributes to high compounding rates, using both continuous feed and batch systems
- Wide range of versatility with respect to feeding and handling; e.g. gravimetric, loss-in-weight, dense-phase conveying
- Sizing system is tailored to provide uniform dispersion during the compounding operation
- 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 μm	10
Standard Cut Length	3.2 mm (1/8"), 4.5 mm

PROPERTY INFORMATION

Property ^{a,b}	Unit	Typical Values in Nylon 6/6	ASTM Method
Tensile Strength	MPa	179	D638
	Ksi	26.0	
	Kg/cm ²	1827	
Tensile Strength Retention ^c	MPa	90	D638
	Ksi	13.0	
	Kg/cm ²	914	
Flexural Strength	MPa	262	D790
	Ksi	38.0	
	Kg/cm ²	2671	
Flexural Modulus	GPa	9.0	D790
	Ksi	1300	
	Kg/cm ² X 10 ⁻³	91.4	
Izod Impact	J/m	107	D256
	Ft-lb/in	2.0	
	Kg-cm/cm	11	
Unnotched Impact	J/m	961	
	Ft-lb/in	18.0	
	Kg-cm/cm	98	
Glass Content	% by wt.	30	D2584

a. 48 hours conditioned

b 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

c. Tensile strength following 200 hours exposure to a 50:50 (v/v) mixture of engine coolant and deionized H₂O at 130°C

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.