PPG Fiber Glass

TECHNICAL DATA SHEET

ChopVantage® HP 3662

Application: ChopVantage® HP 3662 *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 recognized.*

- **Suitable for use in a wide range of nylons: 6, 6/6, 4/6, 6/10, 6/12, PPA**
- **High mechanical strength to product and exhibits good strength retention after wet and dry heat aging**
- **Smooth molded surfaces and ability to attain good color matching provide important benefits to the end user**
- **Ability to cause the elongation property of the nylon 6/6 composite to increase with exposure to glycol coolant systems**
- **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	**13.7**
Standard Cut Length	**3.2 mm (1/8")**

PROPERTY INFORMATION

Property [a,b]	Unit	Typical Value Nylon 6/6	Typical Value Impact Mod Nylon 6	ASTM Method
Tensile Strength	MPa	175	179	D638
	Ksi	25.4	26.0	
	Kg/cm^2	1785	1827	
Flexural Strength	MPa	272	228	D790
	Ksi	39.5	33	
	Kg/cm^2	2776	2319	
Flexural Modulus	GPa	9.2	7.6	D790
	Ksi X 10^3	1336	1108	
	Kg/cm^2 X10^{-3}	93.9	77.9	
Izod Impact	J/m	140	230	D256
	Ft-lb/in	2.6	4.3	
	Kg-cm/cm	14	23	
Unnotched Impact	J/m	929	1335	
	Ft-lb/in	17.4	25	
	Kg-cm/cm	95	136	
Glass Content	% by wt.	33	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

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.