



## TECHNICAL DATA SHEET

### ChopVantage<sup>®</sup> HP 3563

**Application:** ChopVantage<sup>®</sup> HP 3563 is well suited to meet the needs of PET applications in electrical/electronic, transportation and appliance markets. Excellent results have been obtained in various FR systems and in combination with fillers such as mica. Improvements in impact strength have been realized in mineral/glass formulations without loss of molding performance or viscosity control.

- Compatible with various resin systems, polymer blends, modified grades, and alloys; e.g. PBT, nylon/PP, PE elastomers, and PPO & PPE blends
- Shows durable strand integrity across multiple processing methods
- Exhibits improved impact strengths in many glass/mineral systems
- Wide range of versatility with respect to feeding and handling; e.g. gravimetric, loss-in-weight, dense-phase conveying
- Superior dry flow performance which contributes to high compounding rates, using both continuous feed and batch systems
- 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 $\mu\text{m}$	10
Standard Cut Length	3.2 mm (1/8")

#### PROPERTY INFORMATION

Property <sup>a,b</sup>	Unit	Typical Value, TP FR PET	Typical Value PBT	ASTM Method
Tensile Strength	MPa	135	139	D638
	Ksi	19.6	20.2	
	Kg/cm <sup>2</sup>	1378	1420	
Flexural Strength	MPa	199	214	D790
	Ksi	28.9	31.1	
	Kg/cm <sup>2</sup>	2031	2186	
Flexural Modulus	GPa	10.4	8.3	D790
	Ksi	1514	1210	
	Kg/cm <sup>2</sup> X10 <sup>-3</sup>	106.4	85	
Izod Impact	J/m	131	107	D256
	Ft-lb/in	2.5	2.0	
	Kg-cm/cm	13	11	
Unnotched Impact	J/m	667	721	
	Ft-lb/in	12.5	13.5	
	Kg-cm/cm	68	73	
Glass Content	% by wt.	30	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.