



## TECHNICAL DATA SHEET

### ChopVantage<sup>®</sup> HP 3790

**Application:** ChopVantage<sup>®</sup> HP 3790 is designed for reinforcement of PBT thermoplastic polyester. It also contributes high reinforcement properties when used in styrenic copolymer, polyphenylene sulfide, and polycarbonate resins. End products typically find application in the automotive industry

- Compatible with various resin systems and processing methods; such as PBT, PC, PPS, PET, POM, SMA
- 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
- 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 PBT	Typical Value Polycarbonate	ASTM Method
Tensile Strength	MPa	131	131	D638
	Ksi	19.0	19.0	
	Kg/cm <sup>2</sup>	1335	1335	
Flexural Strength	MPa	200	177	D790
	Ksi	29.0	25.6	
	Kg/cm <sup>2</sup>	2038	1799	
Flexural Modulus	GPa	8.3	7.6	D790
	Ksi	1200	1100	
	Kg/cm <sup>2</sup> X10 <sup>-3</sup>	84.3	77.3	
Izod Impact	J/m	85	123	D256
	Ft-lb/in	1.6	2.3	
	Kg-cm/cm	9	13	
Unnotched Impact	J/m	801	694	D648
	Ft-lb/in	15	13	
	Kg-cm/cm	82	71	
Glass Content	% by wt.	30.1	30.1	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