



TECHNICAL DATA SHEET

ChopVantage® HP 3786

Application: *ChopVantage® HP 3786 is designed for reinforcement of PBT thermoplastic polyester. ChopVantage® HP 3786 also contributes to high reinforcement properties in styrenic copolymers, polycarbonate resins, PET, POM and PPS. The smaller diameter is needed to meet the needs in applications where maximum mechanical properties are required. End-use applications are found in transportation, electrical and electronic, appliance, and computer housings and components.*

PRODUCT DESCRIPTION

Type of Fiber	E-Glass (ASTM D578-98, paragraph 4.2.2)
Fiber Diameter, nominal, µm	10 micron
Standard Fiber Length	4.5 mm

- Compatible with various resin systems and processing methods; such as PBT, PC, PET, POM and PPS
- Exhibits good strength retention after wet and dry heat aging
- Imparts high dielectric strength to PBT for such electrical applications as connectors, fuse block holders and other non-current carrying components
- Superior dry flow performance which contributes to high compounding rates
- Wide range of versatility with respect to feeding and handling
- Provides an optimum balance of sizing functions

PROPERTY INFORMATION

Property	Test Method	Unit	PBT	PET
Tensile Strength	ISO 527	MPa	140	199
Tensile Modulus	ISO 527	Gpa	10.0	11.5
Flexural Strength	ISO 178	Mpa	220	260
Flexural Modulus	ISO 178	Gpa	8.0	10.1
Charpy, Unnotched	ISO 179	kJ/m ²	65	27
Charpy, Notched	ISO 179	kJ/m ²	14	10
Izod, unnotched	ISO 180	kJ/m ²	60	53
Izod, Notched	ISO 180	kJ/m ²	11	10
Glass Content	ISO 1172	wt%	30	30

Data were 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.

PACKAGING

ChopVantage® HP 3786 is supplied in Big Bags of 1000 kg or 1100 kg of chopped strands and Octabins containing 1000 kg of chopped strands. The packaging is designed to allow bottom discharge of the chopped strands. Packaging in smaller quantities is available on request.

STORAGE

ChopVantage® HP 3786 should preferably be stored at room temperature and at a relative humidity of 65±10%. To avoid problems with humidity or static electricity the glass fibers should be conditioned in the work area prior to use. If the contents of a packaging unit are only partly used, the packaging should be closed again. A first in first out control system is not strictly necessary, but will help to minimize the influence of adverse storage conditions.