

Evonik Corporation Vestodur® X7285 30% Glass Fiber Reinforced PBT

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 30% Glass Fiber Filled

Material Notes:

Description: VESTODUR X7285 is a 30% glass fiber reinforced compound based on polymer-modified polybutylene terephthalate (PBT) for injection molding. The compound is suitable for parts with high mechanical and thermal resistance. In contrast to common glass fiber reinforced PBT compounds with comparable stiffness moldings of VESTODUR X7285 show in particular a high surface quality. Information provided by degussa.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Evonik-Corporation-Vestodur-X7285-30-Glass-Fiber-Reinforced-PBT.php

Physical Properties	Metric	English	Comments
Density	1.55 g/cc	0.0560 lb/in ³	ISO 1183
Water Absorption at Saturation	0.50 %	0.50 %	ISO 62
Linear Mold Shrinkage	0.002 cm/cm @Thickness 2.00 mm	0.002 in/in @Thickness 0.0787 in	sheet with film gate at rim, mold temperature 80°C
Linear Mold Shrinkage, Transverse	0.015 cm/cm	0.015 in/in	
Melt Flow	21.7 g/10 min @Load 2.16 kg, Temperature 250 °C	21.7 g/10 min @Load 4.76 lb, Temperature 482 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	150 MPa	21800 psi	ISO 527-1/2
Elongation at Break	2.7 %	2.7 %	ISO 527-1/2
Tensile Modulus	10.0 GPa	1450 ksi	ISO 527-1/-2
Charpy Impact Unnotched	6.50 J/cm ² @Temperature -30.0 °C	30.9 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eU
	6.50 J/cm ² @Temperature 23.0 °C	30.9 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	1.00 J/cm ² @Temperature -30.0 °C	4.76 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eA
	1.10 J/cm ² @Temperature 23.0 °C	5.24 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	223 °C	433 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	200 °C	392 °F	ISO 75-1/-2
Vicat Softening Point	213 °C	415 °F	Method B, 50 N; ISO 306
	220 °C	428 °F	Method A, 10 N; ISO 306
Flammability, UL94	HB	HB	IEC 60695
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	HB	HB	IEC 60695
	@Thickness 1.60 mm	@Thickness 0.0630 in	

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