

## Evonik Corporation Vestodur® X7085 45% Glass Fiber Reinforced PBT

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 50% Glass Fiber Filled

### Material Notes:

Description: VESTODUR X7085 is a 45 % glass fiber-reinforced, polymer-modified polybutylene terephthalate compound for injection molding. The compound is suitable for parts that are subjected to high mechanical and thermal loads. Compared with commonly used glass fiber-reinforced PBT compounds with similar stiffness parts of VESTODUR X7085 have 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-X7085-45-Glass-Fiber-Reinforced-PBT.php](http://www.lookpolymers.com/polymer_Evonik-Corporation-Vestodur-X7085-45-Glass-Fiber-Reinforced-PBT.php)

Physical Properties	Metric	English	Comments
Density	1.70 g/cc	0.0614 lb/in <sup>3</sup>	ISO 1183
Water Absorption at Saturation	0.40 %	0.40 %	ISO 62
Linear Mold Shrinkage	0.0015 cm/cm @Thickness 2.00 mm	0.0015 in/in @Thickness 0.0787 in	sheet with film gate at rim, mold temperature 80°C
Linear Mold Shrinkage, Transverse	0.013 cm/cm	0.013 in/in	
Melt Flow	20.4 g/10 min @Load 2.16 kg, Temperature 250 °C	20.4 g/10 min @Load 4.76 lb, Temperature 482 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	180 MPa	26100 psi	ISO 527-1/2
Elongation at Break	1.8 %	1.8 %	ISO 527-1/2
Tensile Modulus	14.5 GPa	2100 ksi	ISO 527-1/-2
Charpy Impact Unnotched	5.00 J/cm <sup>2</sup> @Temperature -30.0 °C	23.8 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 179/1eU
	5.00 J/cm <sup>2</sup> @Temperature 23.0 °C	23.8 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	1.30 J/cm <sup>2</sup> @Temperature -30.0 °C	6.19 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 179/1eA
	1.30 J/cm <sup>2</sup> @Temperature 23.0 °C	6.19 ft-lb/in <sup>2</sup> @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)	210 °C	410 °F	ISO 75-1/-2
Vicat Softening Point	210 °C	410 °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	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China