

## Evonik Corporation Vestodur® GF30-FR5 30% Glass Reinforced, Flame Retardant PBT

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Glass Fiber Filled, Flame Retardant

### Material Notes:

Description: )VESTODUR GF30-FR5 is a 30 % glass fiber reinforced semicrystalline thermoplastic compound for injection molding, based on polybutylene terephthalate (PBT). It has a white color. Test bars made of these compounds are rated V-0 according to UL94 by Underwriters Laboratories Inc., self-extinguishing and non-dripping. The compounds are especially suitable for parts which are subjected to high mechanical and thermal loads. Information provided by degussa.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Evonik-Corporation-Vestodur-GF30-FR5-30-Glass-Reinforced-Flame-Retardant-PBT.php](http://www.lookpolymers.com/polymer_Evonik-Corporation-Vestodur-GF30-FR5-30-Glass-Reinforced-Flame-Retardant-PBT.php)

Physical Properties	Metric	English	Comments
Density	1.72 g/cc	0.0621 lb/in <sup>3</sup>	ISO 1183
Water Absorption at Saturation	0.40 %	0.40 %	ISO 62
Linear Mold Shrinkage	0.0010 - 0.0020 cm/cm @Thickness 2.00 mm	0.0010 - 0.0020 in/in @Thickness 0.0787 in	sheet with film gate at rim, mold temperature 80°C
Linear Mold Shrinkage, Transverse	0.014 - 0.016 cm/cm	0.014 - 0.016 in/in	
Melt Flow	20.64 g/10 min @Load 2.16 kg, Temperature 250 °C	20.64 g/10 min @Load 4.76 lb, Temperature 482 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	84	84	ISO 868
Tensile Strength at Break	125 MPa	18100 psi	ISO 527-1/2
Elongation at Break	2.0 %	2.0 %	ISO 527-1/2
Tensile Modulus	11.0 GPa	1600 ksi	ISO 527-1/-2
Charpy Impact Unnotched	4.00 J/cm <sup>2</sup> @Temperature -30.0 °C	19.0 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 179/1eU
	4.00 J/cm <sup>2</sup> @Temperature 23.0 °C	19.0 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	0.800 J/cm <sup>2</sup> @Temperature -30.0 °C	3.81 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 179/1eA
	0.800 J/cm <sup>2</sup>	3.81 ft-lb/in <sup>2</sup>	

Mechanical Properties	Metric	English	ISO 179/1eA Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Thermal Properties	Metric	English	Comments
CTE, linear	50.0 µm/m-°C @Temperature 23.0 - 55.0 °C	27.8 µin/in-°F @Temperature 73.4 - 131 °F	Longitudinal; ISO 11359, DIN 53752
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	V-0 @Thickness 0.800 mm	V-0 @Thickness 0.0315 in	IEC 60695
	V-0 @Thickness 1.60 mm	V-0 @Thickness 0.0630 in	IEC 60695
Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	IEC 60093
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	IEC 60093
Comparative Tracking Index	250 V	250 V	Test Solution A CTI; IEC 60112
	250 V	250 V	100 drops value; IEC 60112

## Contact Songhan Plastic Technology Co.,Ltd.

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