

## Evonik Corporation Vestodur® CL2230 30% Glass Reinforced, Crosslinkable PBT Based Compound

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

### Material Notes:

Description: (Preliminary Data Sheet) VESTODUR CL2230 is a 30 % glass fiber-reinforced, self-extinguishing compound for injection molding, based on modified polybutylene terephthalate (PBT). Moldings of VESTODUR CL2230 can be crosslinked by high-energy radiation ( $\beta$ - or  $\gamma$ -radiation). The influence of the radiation to the mechanical properties is negligible. The short-term heat resistance is increased up to 400°C depending on the conditions. Crosslinked parts of VESTODUR CL2230 can be used in common soldering processes like surge soldering, gas phase soldering or IR soldering which are typical in the electronic industry. The incorporated flame retardant is non-migrating and has no corrosive effects on metal inserts or neighboring metal parts. Laser marking with high contrast is possible. The compound contains a special additive that can be activated by a LPKF laser system\*. The laser-activated areas can be plated selectively. Information provided by degussa.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Evonik-Corporation-Vestodur-CL2230-30-Glass-Reinforced-Crosslinkable-PBT-Based-Compound.php](http://www.lookpolymers.com/polymer_Evonik-Corporation-Vestodur-CL2230-30-Glass-Reinforced-Crosslinkable-PBT-Based-Compound.php)

Physical Properties	Metric	English	Comments
Density	1.77 g/cc	0.0639 lb/in <sup>3</sup>	ISO 1183
Linear Mold Shrinkage	0.0010 cm/cm	0.0010 in/in	Post Shrinkage (5 h, 140°C) on 2 mm sheets with film gate at rim, mold temperature 80°C
	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	0.0030 cm/cm	0.0030 in/in	Post Shrinkage (5 h, 140°C) on 2 mm sheets with film gate at rim, mold temperature 80°C
	0.011 cm/cm	0.011 in/in	
Melt Flow	49.56 g/10 min	49.56 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 250 °C	@Load 4.76 lb, Temperature 482 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	95.0 MPa	13800 psi	ISO 527-1/2
Elongation at Break	1.2 %	1.2 %	ISO 527-1/2
Tensile Modulus	10.5 GPa	1520 ksi	ISO 527-1/-2
Charpy Impact Unnotched	3.00 J/cm <sup>2</sup>	14.3 ft-lb/in <sup>2</sup>	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	0.500 J/cm <sup>2</sup> Metric	2.38 ft-lb/in <sup>2</sup> English	Comments
Energy Impact, Notched	@Temperature 23.0 °C	@Temperature 73.4 °F	ISO 179/15A

Thermal Properties	Metric	English	Comments
Flammability, UL94	V-0	V-0	IEC 60695
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	V-0	V-0	IEC 60695
	@Thickness 1.60 mm	@Thickness 0.0630 in	

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