

## Evonik Corporation Vestodur® CL3230 30% Mineral Filled, 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 CL3230 is a 30 % mineral-filled, self-extinguishing compound for injection molding, based on modified polybutylene terephthalate (PBT). Moldings of VESTODUR CL3230 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 350°C depending on the conditions. Crosslinked parts of VESTODUR CL3230 can be used in common soldering processes like surge soldering, vapor phase soldering and IR soldering which are typical in the electronic industry. VESTODUR CL3230 is suitable for use of lead-free plump. 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, which can be activated by a LPKF laser system. The 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-CL3230-30-Mineral-Filled-Crosslinkable-PBT-Based-Compound.php](http://www.lookpolymers.com/polymer_Evonik-Corporation-Vestodur-CL3230-30-Mineral-Filled-Crosslinkable-PBT-Based-Compound.php)

Physical Properties	Metric	English	Comments
Density	1.67 g/cc	0.0603 lb/in <sup>3</sup>	ISO 1183
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	Post Shrinkage (5 h, 140°C) on 2 mm sheets with film gate at rim, mold temperature 80°C
	0.013 cm/cm @Thickness 2.00 mm	0.013 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
	0.014 cm/cm	0.014 in/in	
Melt Flow	61.79 g/10 min	61.79 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	44.0 MPa	6380 psi	ISO 527-1/2
Elongation at Break	1.1 %	1.1 %	ISO 527-1/2
Tensile Modulus	4.80 GPa	696 ksi	ISO 527-1/-2
Charpy Impact Unnotched	1.50 J/cm <sup>2</sup>	7.14 ft-lb/in <sup>2</sup>	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	0.210 J/cm <sup>2</sup>	0.999 ft-lb/in <sup>2</sup>	

Charpy Impact, Notched			
Mechanical Properties	Metric	English	ISO 179/1eA Comments
	@ Temperature 23.0 °C	@ Temperature 73.4 °F	
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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