

## Evonik Corporation Vestodur® CL2012 12% Glass Reinforced, Crosslinkable PBT Based Compound

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 20% Glass Fiber Filled

### Material Notes:

Description: VESTODUR CL2012 is a 12 % glass fiber reinforced, self-extinguishing compound for injection molding, based on modified polybutylene terephthalate (PBT). Moldings of VESTODUR CL2012 can be crosslinked by high-energy radiation ( $\beta$ - or  $\gamma$ -radiation) or heat. The radiation will not influence the mechanical properties significantly. The short-term heat resistance is increased up to 320 °C depending on the conditions. Therefore, crosslinked parts of VESTODURCL2012 can be used, for example, in common soldering processes in the electronic industry as surge soldering, gas phase soldering or IR soldering. Information provided by degussa.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Evonik-Corporation-Vestodur-CL2012-12-Glass-Reinforced-Crosslinkable-PBT-Based-Compound.php](http://www.lookpolymers.com/polymer_Evonik-Corporation-Vestodur-CL2012-12-Glass-Reinforced-Crosslinkable-PBT-Based-Compound.php)

Physical Properties	Metric	English	Comments
Density	1.58 g/cc	0.0571 lb/in <sup>3</sup>	ISO 1183
Water Absorption at Saturation	0.40 %	0.40 %	ISO 62
Linear Mold Shrinkage	0.005 cm/cm @Thickness 2.00 mm	0.005 in/in @Thickness 0.0787 in	sheet with film gate at rim, mold temperature 80°C
Linear Mold Shrinkage, Transverse	0.018 cm/cm	0.018 in/in	
Melt Flow	41.08 g/10 min @Load 2.16 kg, Temperature 250 °C	41.08 g/10 min @Load 4.76 lb, Temperature 482 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	80.0 MPa	11600 psi	ISO 527-1/2
Elongation at Break	2.0 %	2.0 %	ISO 527-1/2
Tensile Modulus	5.80 GPa	841 ksi	ISO 527-1/-2
Charpy Impact Unnotched	3.00 J/cm <sup>2</sup> @Temperature -30.0 °C	14.3 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 179/1eU
	3.00 J/cm <sup>2</sup> @Temperature 23.0 °C	14.3 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	0.650 J/cm <sup>2</sup> @Temperature -30.0 °C	3.09 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 179/1eA
	0.650 J/cm <sup>2</sup>	3.09 ft-lb/in <sup>2</sup>	

Mechanical Properties	Metric @ Temperature 23.0 °C	English @ Temperature 73.4 °F	ISO 179/1eA Comments
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Thermal Properties	Metric	English	Comments
Vicat Softening Point	213 °C	415 °F	Method A, 10 N; ISO 75-1/-2
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	

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+15 ohm	1.00e+15 ohm	IEC 60093
Dielectric Strength	30.0 kV/mm	762 kV/in	K20/P50; IEC 60243-1
Comparative Tracking Index	175 V	175 V	100 drops value; IEC 60112
	200 V	200 V	

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