

Evonik Corporation Vestodur® CL2120 20% 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 CL2120 is a 20 % glass fiber reinforced, self-extinguishing compound for injection molding, based on modified polybutylene terephthalate (PBT). Moldings of VESTODUR CL2120 can be crosslinked by high-energy radiation (β - or γ -radiation) or heat. The influence of the radiation to the mechanical properties is negligible. The short-term heat resistance is increased up to 310 °C depending on the conditions. Crosslinked parts of VESTODUR CL2120 can be used in common soldering processes like surge soldering, vapor phase soldering, and 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. Due to a special additive this PBT compound can be metallized selectively. Information provided by degussa.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Evonik-Corporation-Vestodur-CL2120-20-Glass-Reinforced-Crosslinkable-PBT-Based-Compound.php

Physical Properties	Metric	English	Comments
Density	1.80 g/cc	0.0650 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0020 - 0.0040 cm/cm @Thickness 2.00 mm	0.0020 - 0.0040 in/in @Thickness 0.0787 in	sheet with film gate at rim, mold temperature 80°C
Linear Mold Shrinkage, Transverse	0.016 - 0.018 cm/cm	0.016 - 0.018 in/in	
Melt Flow	50.4 g/10 min @Load 2.16 kg, Temperature 250 °C	50.4 g/10 min @Load 4.76 lb, Temperature 482 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	85.0 MPa	12300 psi	ISO 527-1/2
Elongation at Break	1.2 %	1.2 %	ISO 527-1/2
Tensile Modulus	9.30 GPa	1350 ksi	ISO 527-1/-2
Charpy Impact Unnotched	2.50 J/cm ² @Temperature 23.0 °C	11.9 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	0.400 J/cm ² @Temperature 23.0 °C	1.90 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	310 °C	590 °F	Short Term Heat Resistance after crosslinking (Soldering Tip)

Thermal Properties	Metric	English	Comments
Continuous Temperature at 0.46 MPa (66 psi)	221 °C	430 °F	ISO 15-1/-2
Flammability, UL94	V-0	V-0	IEC 60695
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	V-0	V-0	IEC 60695
	@Thickness 0.400 mm	@Thickness 0.0157 in	

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	175 V	175 V	Test Solution A CTI; IEC 60112

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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