Evonik Corporation Vestodur® CL2030 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: VESTODUR CL2030 is a 30 % glass fiber-reinforced, self-extinguishing compound for injection molding, based on modified polybutylene terephthalate (PBT).Moldings of VESTODUR CL2030 can be crosslinked by high-energy radiation (ß- or ?-radiation) or heat. 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 CL2030 can be used in common soldering processes like surge soldering, vapor 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.Information provided by degussa.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Evonik-Corporation-Vestodur-CL2030-30-Glass-Reinforced-Crosslinkable-PBT-Based-Compound.php

Physical Properties	Metric	English	Comments
Density	1.72 g/cc	0.0621 lb/in³	ISO 1183
Water Absorption at Saturation	0.40 %	0.40 %	ISO 62
Linear Mold Shrinkage	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	0.010 cm/cm	0.010 in/in	
Melt Flow	22.36 g/10 min @Load 2.16 kg, Temperature 250 °C	22.36 g/10 min @Load 4.76 lb, Temperature 482 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	230 MPa	33400 psi	H30 (350 Kgy); ISO 2039-1
Tensile Strength at Break	130 MPa	18900 psi	ISO 527-1/2
Elongation at Break	1.8 %	1.8 %	ISO 527-1/2
Tensile Modulus	11.0 GPa	1600 ksi	ISO 527-1/-2
Charpy Impact Unnotched	6.00 J/cm² @Temperature -30.0 °C	28.6 ft-lb/in² @Temperature -22.0 °F	ISO 179/1eU
	6.00 J/cm² @Temperature 23.0 °C	28.6 ft-lb/in² @Temperature 73.4 °F	ISO 179/1eU

Mechanical Properties	Metric	English	Comments
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	0.850 J/cm² @Temperature 23.0 °C	4.05 ft-lb/in² @Temperature 73.4 °F	ISO 179/1eA
Tensile Creep Modulus, 1 hour	11000 MPa	1.60e+6 psi	Uncrosslinked; ISO 899-1
	11000 MPa	1.60e+6 psi	Crosslinked; ISO 899-1
Tensile Creep Modulus, 1000 hours	7500 MPa	1.09e+6 psi	Uncrosslinked; ISO 899-1
	8500 MPa	1.23e+6 psi	Crosslinked; ISO 899-1

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	221 °C	430 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	206 °C	403 °F	ISO 75-1/-2
Vicat Softening Point	207 °C	405 °F	Method B, 50 N; ISO 75-1/-2
	215 °C	419 °F	Method A, 10 N; ISO 75-1/-2
Flammability, UL94	V-0 @Thickness 0.400 mm	V-0 @Thickness 0.0157 in	IEC 60695
	V-0 @Thickness 1.60 mm	V-0 @Thickness 0.0630 in	IEC 60695
	V-0 @Thickness 0.800 mm	V-0 @Thickness 0.0315 in	IEC 60695

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+15 ohm	1.00e+15 ohm	IEC 60093
Dielectric Constant	4.0 @Frequency 100 Hz	4.0 @Frequency 100 Hz	IEC 60250
	4.0 @Frequency 1e+6 Hz	4.0 @Frequency 1e+6 Hz	IEC 60250
Dielectric Strength	30.0 kV/mm	762 kV/in	K20/P50; IEC 60243-1
Dissipation Factor	0.0070 @Frequency 100 Hz	0.0070 @Frequency 100 Hz	IEC 60250

Electrical Properties	Metric	English	Comments
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	250 V	250 V	Test Solution A CTI; IEC 60112
	250 V	250 V	100 drops value; IEC 60112

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