

Evonik Corporation Vestodur® X7065 Low Viscous PBT

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Unreinforced, Molded

Material Notes:

Description: VESTODUR X7065 is a low-viscous, easy flowing thermoplastic polyester resin based on polybutylene terephthalate. The resin is especially suitable for the manufacture of parts according to the melt-blow process which are subjected to high mechanical and thermal load. Information provided by degussa.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Evonik-Corporation-Vestodur-X7065-Low-Viscous-PBT.php

Physical Properties	Metric	English	Comments
Density	1.31 g/cc	0.0473 lb/in ³	ISO 1183
Water Absorption at Saturation	0.50 %	0.50 %	ISO 62
Linear Mold Shrinkage	0.015 cm/cm @Thickness 2.00 mm	0.015 in/in @Thickness 0.0787 in	sheet with film gate at rim, mold temperature 80°C
Linear Mold Shrinkage, Transverse	0.015 cm/cm	0.015 in/in	
Melt Flow	209.6 g/10 min @Load 2.16 kg, Temperature 250 °C	209.6 g/10 min @Load 4.76 lb, Temperature 482 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	80	80	ISO 868
Tensile Strength at Break	55.0 MPa	7980 psi	ISO 527-1/-2
Elongation at Break	5.0 %	5.0 %	ISO 527-1/2
Elongation at Yield	7.0 %	7.0 %	Outer fiber strain at maximum stress, 5 mm/min; ISO 178
Tensile Modulus	2.60 GPa	377 ksi	ISO 527-1/-2
Flexural Strength	70.0 MPa	10200 psi	at 3.5% strain, 5 mm/min; ISO 178
	90.0 MPa	13100 psi	5 mm/min; ISO 178
Charpy Impact Unnotched	4.00 J/cm ² @Temperature -30.0 °C	19.0 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eU
	5.00 J/cm ² @Temperature 23.0 °C	23.8 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU
	0.250 J/cm ²	1.19 ft-lb/in ²	

Charpy Impact, Notched Mechanical Properties	Metric @Temperature -30.0 °C	English @Temperature -22.0 °F	ISO 179/1eA Comments
	0.300 J/cm ²	1.43 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	110 µm/m-°C	61.1 µin/in-°F	Longitudinal; ISO 11359, DIN 53752
	@Temperature 23.0 - 55.0 °C	@Temperature 73.4 - 131 °F	
CTE, linear, Transverse to Flow	110 µm/m-°C	61.1 µin/in-°F	ISO 11359, DIN 53752
	@Temperature 23.0 - 55.0 °C	@Temperature 73.4 - 131 °F	
Deflection Temperature at 0.46 MPa (66 psi)	150 °C	302 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	55.0 °C	131 °F	ISO 75-1/-2
Vicat Softening Point	190 °C	374 °F	Method B, 50 N; ISO 306
	220 °C	428 °F	Method A, 10 N; ISO 306
Flammability, UL94	HB	HB	IEC 60695
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	HB	HB	IEC 60695
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+17 ohm-cm	1.00e+17 ohm-cm	IEC 60093
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	IEC 60093
Dielectric Constant	3.3	3.3	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	3.5	3.5	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dissipation Factor	0.0020	0.0020	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.023	0.023	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

Comparative Tracking Index Electrical Properties	575 V Metric	575 V English	100 drops value; IEC 60112 Comments
	600 V	600 V	Test Solution A CTI; IEC 60112

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