

Evonik Corporation Vestodur® X7390 Heat Stabilized PBT

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

Material Notes:

Description: VESTODUR X7190 and X7390 are unreinforced, heat-stabilized and polymer modified polybutylene terephthalate (PBT) compounds with low shrinkage for extrusion. The compounds are especially suitable for the manufacture of stiff, small diameter tubing, e.g., loose buffering for fiber optics. VESTODUR X7390 has increased hydrolysis and heat resistance. Compared with standard PBT compounds X7190 and X7390 are harder. Therefore, they can also be used to protect as outer sheaths to protect electrical cables from the chewing of rodents. Both compounds contain a processing aid which facilitates feeding in the extrusion process. Information provided by degussa.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Evonik-Corporation-Vestodur-X7390-Heat-Stabilized-PBT.php

Physical Properties	Metric	English	Comments
Density	1.28 g/cc	0.0462 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.012 - 0.014 cm/cm @Thickness 2.00 mm	0.012 - 0.014 in/in @Thickness 0.0787 in	sheet with film gate at rim, mold temperature 80°C
Linear Mold Shrinkage, Transverse	0.012 - 0.014 cm/cm	0.012 - 0.014 in/in	
Melt Flow	10.24 g/10 min @Load 2.16 kg, Temperature 250 °C	10.24 g/10 min @Load 4.76 lb, Temperature 482 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	87	87	ISO 868
Tensile Strength, Yield	61.0 MPa	8850 psi	ISO 527-1/2
Elongation at Break	>= 50 %	>= 50 %	ISO 527-1/2
Elongation at Yield	6.5 %	6.5 %	ISO 527-1/2
Tensile Modulus	2.40 GPa	348 ksi	ISO 527-1/-2
Charpy Impact Unnotched	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	ISO 179/1eU
	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	0.550 J/cm ² @Temperature -30.0 °C	2.62 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eA

Mechanical Properties	0.650 J/cm ² Metric	3.09 ft-lb/in ² English	Comments _A
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	80.0 µm/m-°C	44.4 µin/in-°F	Longitudinal; ISO 11359, DIN 53752
	@Temperature 23.0 - 55.0 °C	@Temperature 73.4 - 131 °F	
CTE, linear, Transverse to Flow	80.0 µm/m-°C	44.4 µin/in-°F	ISO 11359, DIN 53752
	@Temperature 23.0 - 55.0 °C	@Temperature 73.4 - 131 °F	
Vicat Softening Point	150 °C	302 °F	Method B, 50 N; ISO 306
	210 °C	410 °F	
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	

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