Evonik Corporation Vestodur® X9408 High Impact PBT

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Impact Grade

Material Notes:

Description: Degussa AG's High Performance Polymers Business Unit manufactures a range of polybutylene terephthalate compounds that are supplied under the registered trademark VESTODUR® . Material properties characterizing VESTODUR compounds are:high thermostabilityhigh stiffnesslow water absorption resulting in high dimensional stabilityhigh hardnessgood strengthgood sliding friction behavior, low abrasiongood creep behaviorgood electrical propertiesgood chemical resistancegood weathering resistancegood processabilityno tendency to form stress cracksSpecific Notes for this Material: Special types for different selective applications in the electrical, automotive, cable manufacturing, machine-building, and apparatus-construction industries. To some extent, the designations are synonyms for various product developments.Information provided by degussa.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Evonik-Corporation-Vestodur-X9408-High-Impact-PBT.php

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 lb/in³	ISO 1183
Linear Mold Shrinkage	0.020 cm/cm	0.020 in/in	Pigmentation can change mold shrinkage.
Linear Mold Shrinkage, Transverse	0.020 cm/cm	0.020 in/in	Pigmentation can change mold shrinkage.
Melt Flow	18.15 g/10 min @Load 5.00 kg, Temperature 250 °C	18.15 g/10 min @Load 11.0 lb, Temperature 482 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	ISO 868
Tensile Strength, Yield	40.0 MPa	5800 psi	50 mm/min; ISO 527-1/2
Elongation at Break	>= 50 %	>= 50 %	50 mm/min; ISO 527-1/2
Elongation at Yield	4.0 %	4.0 %	50 mm/min; ISO 527-1/2
Tensile Modulus	1.70 GPa	247 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	2.00 J/cm² @Temperature -30.0 °C	9.52 ft-lb/in² @Temperature -22.0 °F	ISO 179/1eA

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	Partial Break; ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear	150 µm/m-°C @Temperature 23.0 - 55.0 °C	83.3 µin/in-°F @Temperature 73.4 - 131 °F	Longitudinal; ISO 11359
CTE, linear, Transverse to Flow	150 µm/m-°C @Temperature 23.0 - 55.0 °C	83.3 µin/in-°F @Temperature 73.4 - 131 °F	ISO 11359
Melting Point	221 - 226 °C	430 - 439 °F	DSC
Vicat Softening Point	125 °C	257 °F	50N; ISO 306
	215 °C	419 °F	10N; ISO 306
Flammability, UL94	HB @Thickness 0.800 mm	HB @Thickness 0.0315 in	
	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	IEC 60093
Dielectric Constant	3.0 @Frequency 100 Hz	3.0 @Frequency 100 Hz	IEC 60250
Dielectric Strength	27.0 kV/mm	686 kV/in	K20/P50; IEC 60243-1
Dissipation Factor	0.0020 @Frequency 100 Hz	0.0020 @Frequency 100 Hz	IEC 60250
Comparative Tracking Index	575 V	575 V	Test Solution A, 100 drops; IEC 60112
	>= 600 V	>= 600 V	Test Solution A, CTI; IEC 60112

Descriptive Properties	Value	Comments
Electrolytic Corrosion	A1 Step	IEC 60426

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