

Evonik Corporation Vestodur® X9406 Black E70167 Impact Modified PBT

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

Material Notes:

Description: VESTODUR X9406 is an impact modified compound based on polybutylene terephthalate. The resin is used as a barrier layer resin in multilayer tubing 1000.1 (MLT 1000.1) developed by Degussa. MLT 1000.1 is a 3-layer-tubing comprising an outermost layer of VESTAMID LX9010, an adhesive layer of VESTODUR X9407, and an innermost layer of VESTODUR X9406. This MLT was developed as fuel line tubing with outstanding resistance against hydrocarbon permeation when alcohol containing fuels are used. VESTODUR X9406 provides excellent barrier properties also in contact with fuels at elevated temperatures. Information provided by degussa.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Evonik-Corporation-Vestodur-X9406-Black-E70167-Impact-Modified-PBT.php

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in ³	ISO 1183
Water Absorption at Saturation	0.60 %	0.60 %	ISO 62
Melt Flow	8.61 g/10 min	8.61 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 250 °C	@Load 4.76 lb, Temperature 482 °F	
	19.68 g/10 min	19.68 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 250 °C	@Load 11.0 lb, Temperature 482 °F	
	73.8 g/10 min	73.8 g/10 min	ISO 1133
	@Load 10.0 kg, Temperature 260 °C	@Load 22.0 lb, Temperature 500 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	70	70	ISO 868
Tensile Strength, Yield	40.0 MPa	5800 psi	ISO 527-1/2
Elongation at Break	40 %	40 %	ISO 527-1/2
Elongation at Yield	3.8 %	3.8 %	ISO 527-1/2
Tensile Modulus	1.75 GPa	254 ksi	ISO 527-1/-2
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	NB	NB	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
	1.20 J/cm ²	8.71 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	1.50 J/cm ²	7.14 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	140 µm/m-°C	77.8 µin/in-°F	Longitudinal; ISO 11359, DIN 53752
	@Temperature 23.0 - 80.0 °C	@Temperature 73.4 - 176 °F	
CTE, linear, Transverse to Flow	140 µm/m-°C	77.8 µin/in-°F	ISO 11359, DIN 53752
	@Temperature 23.0 - 80.0 °C	@Temperature 73.4 - 176 °F	
Deflection Temperature at 0.46 MPa (66 psi)	145 °C	293 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	50.0 °C	122 °F	ISO 75-1/-2
Vicat Softening Point	145 °C	293 °F	Method B, 50 N; ISO 306
	215 °C	419 °F	Method A, 10 N; ISO 306

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