

## Evonik Corporation Vestodur® X9407 Polymer Modified PBT

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

### Material Notes:

Description: VESTODUR X9407 is a special compound polymer modified based on polybutylene terephthalate. The resin is used as an adhesive to bond together VESTAMID(polyamide 12) and VESTODUR (polybutylene terephthalate) 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 X9407 provides excellent bonding between layers consisting of polybutylene terephthalate and polyamide 12 also after 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-X9407-Polymer-Modified-PBT.php](http://www.lookpolymers.com/polymer_Evonik-Corporation-Vestodur-X9407-Polymer-Modified-PBT.php)

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in <sup>3</sup>	ISO 1183
Melt Flow	18.08 g/10 min	18.08 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 250 °C	@Load 4.76 lb, Temperature 482 °F	
	50.85 g/10 min	50.85 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 250 °C	@Load 11.0 lb, Temperature 482 °F	
	158.2 g/10 min	158.2 g/10 min	ISO 1133
	@Load 10.0 kg, Temperature 260 °C	@Load 22.0 lb, Temperature 500 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	40.0 MPa	5800 psi	ISO 527-1/2
Elongation at Break	>= 50 %	>= 50 %	ISO 527-1/2
Elongation at Yield	7.0 %	7.0 %	ISO 527-1/2
Tensile Modulus	1.50 GPa	218 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	
	1.00 J/cm <sup>2</sup>	4.76 ft-lb/in <sup>2</sup>	

Charpy Impact, Notched Mechanical Properties	Metric @ Temperature -30.0 °C	English @ Temperature -22.0 °F	ISO 179/1eA Comments
	1.20 J/cm <sup>2</sup>	5.71 ft-lb/in <sup>2</sup>	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	120 µm/m-°C	66.7 µin/in-°F	Longitudinal; ISO 11359, DIN 53752
	@Temperature 23.0 - 80.0 °C	@Temperature 73.4 - 176 °F	
CTE, linear, Transverse to Flow	120 µm/m-°C	66.7 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)	130 °C	266 °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	135 °C	275 °F	Method B, 50 N; ISO 306
	180 °C	356 °F	Method A, 10 N; ISO 306

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