

Evonik Corporation Vestodur® X9412 Black E70203 Conductive, Impact Modified PBT

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

Material Notes:

Description: VESTODUR X9412 is a conductive, impact modified compound based on polybutylene terephthalate. It is used as an inner layer resin in multilayer tubing 1040.2 (MLT 1040.2) for fuel lines to prevent against electrostatical charging. MLT 1040.2 is a 4 layer-tubing comprising an outermost layer of VESTAMID LX9010, an adhesive layer of VESTODUR X9407, a barrier layer of VESTODUR X9406 and an innermost layer of VESTODUR X9412. This MLT was developed as fuel line tubing with outstanding resistance against hydrocarbon permeation especially when alcohol containing fuels are used. Information provided by degussa.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Evonik-Corporation-Vestodur-X9412-Black-E70203-Conductive-Impact-Modified-PBT.php

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 lb/in ³	ISO 1183
Water Absorption at Saturation	0.80 %	0.80 %	ISO 62
Melt Flow	45.98 g/10 min @Load 10.0 kg, Temperature 260 °C	45.98 g/10 min @Load 22.0 lb, Temperature 500 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	ISO 868
Tensile Strength, Yield	27.0 MPa	3920 psi	ISO 527-1/2
Elongation at Break	10 %	10 %	ISO 527-1/2
Elongation at Yield	3.0 %	3.0 %	ISO 527-1/2
Tensile Modulus	1.60 GPa	232 ksi	ISO 527-1/-2
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	NB	NB	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	1.20 J/cm ²	5.71 ft-lb/in ²	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	4.50 J/cm ²	21.4 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	140 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	77.8 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	Longitudinal; ISO 11359, DIN 53752
	@Temperature 23.0 - 80.0 $^\circ\text{C}$	@Temperature 73.4 - 176 $^\circ\text{F}$	
CTE, linear, Transverse to Flow	140 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	77.8 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	ISO 11359, DIN 53752
	@Temperature 23.0 - 80.0 $^\circ\text{C}$	@Temperature 73.4 - 176 $^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	130 $^\circ\text{C}$	266 $^\circ\text{F}$	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	50.0 $^\circ\text{C}$	122 $^\circ\text{F}$	ISO 75-1/-2
Vicat Softening Point	105 $^\circ\text{C}$	221 $^\circ\text{F}$	Method B, 50 N; ISO 306
	210 $^\circ\text{C}$	410 $^\circ\text{F}$	Method A, 10 N; ISO 306

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+6 ohm	1.00e+6 ohm	IEC 60093

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