

## Evonik Corporation Vestodur® X4805 nf PBT (discontinued \*\*)

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

### Material Notes:

ISO data as provided by the manufacturer, Creanova, Inc. The resin is suitable for processing by injection molding, possibly also for the extrusion of cable insulation, for example. This former Creanova product line is a part of Degussa AG as of 2001. This grade is not part of the current Degussa product line.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Evonik-Corporation-Vestodur-X4805-nf-PBT-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Evonik-Corporation-Vestodur-X4805-nf-PBT-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/in <sup>3</sup>	
Melt Flow	20 g/10 min	20 g/10 min	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	50.0 MPa	7250 psi	
Elongation at Break	>= 50 %	>= 50 %	
Elongation at Yield	8.0 %	8.0 %	
Modulus of Elasticity	2.00 GPa	290 ksi	
Charpy Impact Unnotched	14.0 J/cm <sup>2</sup>	66.6 ft-lb/in <sup>2</sup>	
	8.00 J/cm <sup>2</sup>	38.1 ft-lb/in <sup>2</sup>	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.400 J/cm <sup>2</sup>	1.90 ft-lb/in <sup>2</sup>	
	0.400 J/cm <sup>2</sup>	1.90 ft-lb/in <sup>2</sup>	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Tensile Impact Strength	65.0 kJ/m <sup>2</sup>	30.9 ft-lb/in <sup>2</sup>	
Tensile Creep Modulus, 1 hour	1900 MPa	276000 psi	
Tensile Creep Modulus, 1000 hours	1000 MPa	145000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	100 µm/m-°C	55.6 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	130 °C	266 °F	

Thermal Properties	Metric	English	Comments
Heat Deflection Temperature at 1.8 MPa (264 psi)	307 °C	585 °F	
Vicat Softening Point	150 °C	302 °F	50°C/hr/50 N

Electrical Properties	Metric	English	Comments
Electrical Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	
Dielectric Constant	3.0	3.0	
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	3.0	3.0	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dissipation Factor	0.0070	0.0070	
Comparative Tracking Index	@Frequency 100 Hz	@Frequency 100 Hz	
	0.021	0.021	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	275 V	275 V	

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