

## Evonik Corporation Vestodur® X4398 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. Low-temperature high impact PBT resin. For processing by injection molding and extrusion. 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-X4398-nf-PBT-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Evonik-Corporation-Vestodur-X4398-nf-PBT-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in <sup>3</sup>	
Water Absorption	0.00 %	0.00 %	
Moisture Absorption at Equilibrium	<= 0.50 %	<= 0.50 %	Humidity Absorption
Melt Flow	6.0 g/10 min	6.0 g/10 min	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	40.0 MPa	5800 psi	
Elongation at Break	>= 50 %	>= 50 %	
Elongation at Yield	4.0 %	4.0 %	
Modulus of Elasticity	1.90 GPa	276 ksi	
Charpy Impact Unnotched	NB	NB	
	NB	NB	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	6.50 J/cm <sup>2</sup>	30.9 ft-lb/in <sup>2</sup>	
	1.60 J/cm <sup>2</sup>	7.61 ft-lb/in <sup>2</sup>	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Tensile Impact Strength	110 kJ/m <sup>2</sup>	52.3 ft-lb/in <sup>2</sup>	
Tensile Creep Modulus, 1 hour	1700 MPa	247000 psi	
Tensile Creep Modulus, 1000 hours	1100 MPa	160000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	100 µm/m-°C	55.6 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Transverse to Flow	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	140 °C	284 °F	
Deflection Temperature at 1.8 MPa (264 psi)	50.0 °C	122 °F	
Vicat Softening Point	140 °C	284 °F	50°C/hr/50 N
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	

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	
	3.0	3.0	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	27.0 kV/mm	686 kV/in	
Dissipation Factor	0.0015	0.0015	
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.020	0.020	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	600 V	600 V	

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