

Evonik Corporation Vestodur® X4518 nf PBT (discontinued **)

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Flame Retardant

Material Notes:

ISO data as provided by the manufacturer, Creanova, Inc. Modified PBT resin with enhanced rigidity, self-extinguishing, finished with non-migrating flame retardants in accordance with UL 94. UL recognition: UL 94 V-0, all colors, RTI=130/130/140°C. Resin for processing by injection molding and by 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-X4518-nf-PBT-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in ³	
Water Absorption	0.00 %	0.00 %	
Moisture Absorption at Equilibrium	<= 0.50 %	<= 0.50 %	Humidity Absorption
Melt Flow	13 g/10 min	13 g/10 min	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	55.0 MPa	7980 psi	
Elongation at Break	>= 50 %	>= 50 %	
Elongation at Yield	7.0 %	7.0 %	
Modulus of Elasticity	2.20 GPa	319 ksi	
Charpy Impact Unnotched	9.00 J/cm ²	42.8 ft-lb/in ²	
	6.50 J/cm ²	30.9 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.300 J/cm ²	1.43 ft-lb/in ²	
	0.300 J/cm ²	1.43 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Tensile Impact Strength	50.0 kJ/m ²	23.8 ft-lb/in ²	
Tensile Creep Modulus, 1 hour	2200 MPa	319000 psi	
Tensile Creep Modulus, 1000 hours	1100 MPa	160000 psi	

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	100 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	55.6 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@Temperature 20.0 $^\circ\text{C}$	@Temperature 68.0 $^\circ\text{F}$	
CTE, linear, Transverse to Flow	100 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	55.6 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@Temperature 20.0 $^\circ\text{C}$	@Temperature 68.0 $^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	150 $^\circ\text{C}$	302 $^\circ\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	55.0 $^\circ\text{C}$	131 $^\circ\text{F}$	
Vicat Softening Point	155 $^\circ\text{C}$	311 $^\circ\text{F}$	50 $^\circ\text{C}/\text{hr}/50\text{ N}$
UL RTI, Electrical	130 $^\circ\text{C}$	266 $^\circ\text{F}$	
UL RTI, Mechanical with Impact	130 $^\circ\text{C}$	266 $^\circ\text{F}$	
UL RTI, Mechanical without Impact	140 $^\circ\text{C}$	284 $^\circ\text{F}$	
Flammability, UL94	V-0	V-0	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	V-0	V-0	
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	$\geq 1.00\text{e}+15\text{ ohm}\cdot\text{cm}$	$\geq 1.00\text{e}+15\text{ ohm}\cdot\text{cm}$	
Surface Resistance	$1.00\text{e}+14\text{ ohm}$	$1.00\text{e}+14\text{ ohm}$	
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	0.0060	0.0060	
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.020	0.020	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	175 V	175 V	

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