

## Evonik Corporation Vestodur® X7292 nf PBT

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

### Material Notes:

Halogen and phosphate free, self-extinguishing PBT-Resin with higher flexibility for processing by extrusion. Applications: Cable insulation. ISO data as provided by the manufacturer.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Evonik-Corporation-Vestodur-X7292-nf-PBT.php](http://www.lookpolymers.com/polymer_Evonik-Corporation-Vestodur-X7292-nf-PBT.php)

Physical Properties	Metric	English	Comments
Density	1.31 g/cc	0.0473 lb/in <sup>3</sup>	
Water Absorption	0.00 %	0.00 %	
Melt Flow	12 g/10 min	12 g/10 min	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	30.0 MPa	4350 psi	
Elongation at Break	>= 50 %	>= 50 %	
Elongation at Yield	14 %	14 %	
Modulus of Elasticity	0.750 GPa	109 ksi	
Charpy Impact Unnotched	NB	NB	
	9.00 J/cm <sup>2</sup>	42.8 ft-lb/in <sup>2</sup>	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.900 J/cm <sup>2</sup>	4.28 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	

Thermal Properties	Metric	English	Comments
CTE, linear	<= 50.0 µm/m-°C	<= 27.8 µin/in-°F	
	@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)	60.0 °C	140 °F	
Vicat Softening Point	190 °C	374 °F	50°C/hr/50 N

Thermal Properties	V-2 Metric	V-2 English	Comments
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	V-2	V-2	
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	$\geq 1.00\text{e}+15$ ohm-cm	$\geq 1.00\text{e}+15$ ohm-cm	
Surface Resistance	$1.00\text{e}+13$ ohm	$1.00\text{e}+13$ ohm	
Dielectric Constant	3.0	3.0	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	4.0	4.0	
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	600 V	600 V	

## Contact Songhan Plastic Technology Co.,Ltd.

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