

## Evonik Corporation Vestodur® HI19-FR2 nf PBT

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

### Material Notes:

Modified PBT resin with high flexibility, self-extinguishing, meets UL 94 with non-migrating flame retardant agent for injection molding and extruding. 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-HI19-FR2-nf-PBT.php](http://www.lookpolymers.com/polymer_Evonik-Corporation-Vestodur-HI19-FR2-nf-PBT.php)

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/in <sup>3</sup>	
Water Absorption	0.00 %	0.00 %	
Moisture Absorption at Equilibrium	<= 0.50 %	<= 0.50 %	Humidity Absorption
Melt Flow	10 g/10 min	10 g/10 min	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	33.0 MPa	4790 psi	
Elongation at Break	>= 50 %	>= 50 %	
Elongation at Yield	15 %	15 %	
Modulus of Elasticity	1.00 GPa	145 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	0.700 J/cm <sup>2</sup>	3.33 ft-lb/in <sup>2</sup>	
	0.300 J/cm <sup>2</sup>	1.43 ft-lb/in <sup>2</sup>	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Tensile Impact Strength	100 kJ/m <sup>2</sup>	47.6 ft-lb/in <sup>2</sup>	
Tensile Creep Modulus, 1 hour	950 MPa	138000 psi	
Tensile Creep Modulus, 1000 hours	650 MPa	94300 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)	95.0 °C	203 °F	
Deflection Temperature at 1.8 MPa (264 psi)	40.0 °C	104 °F	
Vicat Softening Point	125 °C	257 °F	50°C/hr/50 N
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	>= 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	
	4.0	4.0	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	25.0 kV/mm	635 kV/in	
Dissipation Factor	0.015	0.015	
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.025	0.025	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	200 V	200 V	

## Contact Songhan Plastic Technology Co.,Ltd.

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