

## Evonik Corporation Vestamid® L1640 nf (as-conditioned) Nylon 12 (discontinued \*\*)

Category : Polymer , Thermoplastic , Nylon , Nylon 12

### Material Notes:

ISO data as provided by the manufacturer, Creanova, Inc. Uses: Wire insulation, fiber optics jacketing. 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-Vestamid-L1640-nf-as-conditioned-Nylon-12-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Evonik-Corporation-Vestamid-L1640-nf-as-conditioned-Nylon-12-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	1.01 g/cc	0.0365 lb/in <sup>3</sup>	
Moisture Absorption at Equilibrium	<= 0.50 %	<= 0.50 %	Humidity Absorption

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	38.0 MPa	5510 psi	
Elongation at Break	>= 50 %	>= 50 %	
Elongation at Yield	9.0 %	9.0 %	
Modulus of Elasticity	1.20 GPa	174 ksi	
Charpy Impact Unnotched	NB	NB	
	NB	NB	
	@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	

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)	110 °C	230 °F	
Deflection Temperature at 1.8 MPa (264 psi)	45.0 °C	113 °F	
Vicat Softening Point	140 °C	284 °F	50°C/hr/50 N
UL RTI, Electrical			

Thermal Properties	110 °C Metric	230 °F English	Comments
UL RTI, Mechanical with Impact	70.0 °C	158 °F	
UL RTI, Mechanical without Impact	95.0 °C	203 °F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	4.00e+14 ohm-cm	4.00e+14 ohm-cm	
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	
Dielectric Constant	3.0	3.0	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	5.0	5.0	
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	30.0 kV/mm	762 kV/in	
Dissipation Factor	0.050	0.050	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dissipation Factor	0.075	0.075	
	@Frequency 100 Hz	@Frequency 100 Hz	

## Contact Songhan Plastic Technology Co.,Ltd.

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