

Evonik Corporation Vestamid® L1722P nf (as-conditioned) Nylon 12

Category : Polymer , Thermoplastic , Nylon , Nylon 12

Material Notes:

Uses: Cable ties, strip clips.ISO data as provided by the manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Evonik-Corporation-Vestamid-L1722P-nf-as-conditioned-Nylon-12.php

Physical Properties	Metric	English	Comments
Density	1.02 g/cc	0.0368 lb/in ³	
Moisture Absorption at Equilibrium	<= 0.50 %	<= 0.50 %	Humidity Absorption

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	25.0 MPa	3630 psi	
Elongation at Break	>= 50 %	>= 50 %	
Elongation at Yield	23 %	23 %	
Modulus of Elasticity	0.450 GPa	65.3 ksi	
Charpy Impact Unnotched	NB	NB	
	NB	NB	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	1.90 J/cm ²	9.04 ft-lb/in ²	
	0.600 J/cm ²	2.86 ft-lb/in ²	
	@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)	95.0 °C	203 °F	
Deflection Temperature at 1.8 MPa (264 psi)	45.0 °C	113 °F	
Vicat Softening Point	130 °C	266 °F	50°C/hr/50 N

Electrical Properties	Metric	English	Comments
Electrical Resistivity	2.00e+12 ohm-cm	2.00e+12 ohm-cm	

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00×10^{14} ohm	1.00×10^{14} ohm	
Dielectric Constant	4.0	4.0	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	13	13	
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	30.0 kV/mm	762 kV/in	
Dissipation Factor	0.14	0.14	
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.14	0.14	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

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