

## Evonik Corporation Vestamid® L2121 sw 9.7507 (dry properties) Nylon 12

Category : Polymer , Thermoplastic , Nylon , Nylon 12 , Nylon 12, Extrusion/Tubing Grade

### Material Notes:

Uses: Tubing for the automobile industry.ISO data as provided by the manufacturer.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Evonik-Corporation-Vestamid-L2121-sw-97507-dry-properties-Nylon-12.php](http://www.lookpolymers.com/polymer_Evonik-Corporation-Vestamid-L2121-sw-97507-dry-properties-Nylon-12.php)

Physical Properties	Metric	English	Comments
Density	1.03 g/cc	0.0372 lb/in <sup>3</sup>	
Moisture Absorption at Equilibrium	<= 0.50 %	<= 0.50 %	Humidity Absorption
Melt Flow	45 g/10 min	45 g/10 min	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	37.0 MPa	5370 psi	
Elongation at Break	>= 50 %	>= 50 %	
Elongation at Yield	19 %	19 %	
Modulus of Elasticity	0.800 GPa	116 ksi	
Charpy Impact Unnotched	NB	NB	
	NB	NB	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	2.00 J/cm <sup>2</sup>	9.52 ft-lb/in <sup>2</sup>	
	0.600 J/cm <sup>2</sup>	2.86 ft-lb/in <sup>2</sup>	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Tensile Creep Modulus, 1 hour	670 MPa	97200 psi	
Tensile Creep Modulus, 1000 hours	390 MPa	56600 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	
CTE, linear, Transverse to Flow	100 µm/m-°C	55.6 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa			

(56 psi) Thermal Properties	110 °C Metric	230 °F English	Comments
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
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	7.00e+13 ohm-cm	7.00e+13 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	
	6.0	6.0	
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	36.0 kV/mm	914 kV/in	
Dissipation Factor	0.050	0.050	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.18	0.18	
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	600 V	600 V	

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