

Evonik Corporation Vestamid® L2122 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-L2122-sw-97507-dry-properties-Nylon-12.php

Physical Properties	Metric	English	Comments
Density	1.03 g/cc	0.0372 lb/in ³	
Moisture Absorption at Equilibrium	<= 0.50 %	<= 0.50 %	Humidity Absorption
Melt Flow	46 g/10 min	46 g/10 min	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	31.0 MPa	4500 psi	
Elongation at Break	>= 50 %	>= 50 %	
Elongation at Yield	27 %	27 %	
Modulus of Elasticity	0.550 GPa	79.8 ksi	
Charpy Impact Unnotched	NB	NB	
	NB	NB	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	5.50 J/cm ²	26.2 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, 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 (66 psi)	95.0 °C	203 °F	
Deflection Temperature at 1.8 MPa (264 psi)	45.0 °C	113 °F	

Vicat Softening Point Thermal Properties	130 °C Metric	266 °F English	50°C/60N/50 N Comments
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	5.00e+12 ohm-cm	5.00e+12 ohm-cm	
Surface Resistance	8.00e+14 ohm	8.00e+14 ohm	
Dielectric Constant	3.0	3.0	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	10	10	
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	36.0 kV/mm	914 kV/in	
Dissipation Factor	0.10	0.10	
	@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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