

Evonik Corporation Vestamid® L2121 sw 9.7507 (as-conditioned) 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-as-conditioned-Nylon-12.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|---------------------------|----------|
| Density | 1.03 g/cc | 0.0372 lb/in ³ | |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|-------------------------|----------------------------|----------|
| Tensile Strength, Yield | 33.0 MPa | 4790 psi | |
| Elongation at Break | >= 50 % | >= 50 % | |
| Elongation at Yield | 21 % | 21 % | |
| Modulus of Elasticity | 0.700 GPa | 102 ksi | |
| Charpy Impact Unnotched | NB | NB | |
| | NB | NB | |
| | @Temperature -30.0 °C | @Temperature -22.0 °F | |
| Charpy Impact, Notched | NB | NB | |
| | 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) | 110 °C | 230 °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 | 1.00e+13 ohm-cm | 1.00e+13 ohm-cm | |
| Surface Resistance | 5.00e+14 ohm | 5.00e+14 ohm | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|--------------------|--------------------|----------|
| Dielectric Constant | @Frequency 1e+6 Hz | @Frequency 1e+6 Hz | |
| | 9.0 | 9.0 | |
| | @Frequency 100 Hz | @Frequency 100 Hz | |
| Dielectric Strength | 36.0 kV/mm | 914 kV/in | |
| Dissipation Factor | 0.075 | 0.075 | |
| | @Frequency 1e+6 Hz | @Frequency 1e+6 Hz | |
| | 0.18 | 0.18 | |
| | @Frequency 100 Hz | @Frequency 100 Hz | |

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