VESTAMID® LX9012 T8

PA12 Evonik Operations GmbH

Product Texts

Heat stabilized and light resistant polyamide 12 compound

VESTAMID® LX9012 T8 has been especially developed for the extrusion and co-extrusion of ski upper and decorative films. Decoration on the bottom side of injection molded sports shoe soles is a further application field.

Films made of VESTAMID® LX9012 T8 feature high transparency, good screen and sublimation printing, outstanding scratch resistance, and excellent impact strength at low temperatures. The semi-crystalline compounds based on PA 12 absorb only low quantities of water.

Therefore, molded parts show excellent dimensional stability, constantly high impact strength, low coefficient of friction and good chemical resistance at changing ambient humidity.

VESTAMID® LX9012 T8 is supplied as cylindrical granules, ready for processing in moisture-proof packaging.

Inside the original and undamaged packaging, the product has a shelf life of at least 2 years when stored in dry rooms at temperatures not exceeding 30°C.

For information about processing of VESTAMID®, please follow the general commendations about "Processing of VESTAMID® compounds".

The values presented are typical or average values, they do not constitute a specification.

FOR FURTHER INFORMATION PLEASE CONTACT US AT EVONIK-HP@EVONIK.COM OR VISIT OUR PRODUCT AT WWW.VESTAMID.COM

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
[C] Melt volume-flow rate, MVR	**22 / ***	cm³/10min	ISO 1133
Temperature	**220 / ***	°C	-
Load	**10 / ***	kg	-
[C] Molding shrinkage, parallel	**1.3 / ***	%	ISO 294-4, 2577
[C] Molding shrinkage, normal	**1.3 / ***	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**1100 / -**	MPa	ISO 527
[C] Yield stress	**35 / -**	MPa	ISO 527
[C] Yield strain	**5 / -**	%	ISO 527
[C] Nominal strain at break	**>50 / -**	%	ISO 527
[C] Charpy impact strength, +23°C	**N / -**	kJ/m²	ISO 179/1eU
[C] Charpy impact strength, -30°C	**N / -**	kJ/m²	ISO 179/1eU
[C] Charpy notched impact strength, +23°C	**13 / -**	kJ/m²	ISO 179/1eA
[C] Type of failure	**C / -**	-	-
[C] Charpy notched impact strength, -30°C	**15 / -**	kJ/m²	ISO 179/1eA
[C] Type of failure	**C / -**	-	-
[C] Shore D hardness	**71 / ***	-	ISO 7619-1

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Melting temperature, 10°C/min	**176 / ***	°C	ISO 11357-1/-3
[C] Glass transition temperature, 10°C/min	**39 / ***	°C	ISO 11357-1/-2
[C] Temp. of deflection under load, 1.80 MPa	**45 / ***	°C	ISO 75-1/-2
[C] Temp. of deflection under load, 0.45 MPa	**120 / ***	°C	ISO 75-1/-2
[C] Vicat softening temperature, B	**130 / ***	°C	ISO 306
[C] Coeff. of linear therm. expansion, parallel	**130 / ***	E-6/K	ISO 11359-1/-2
[C] Burning Behav. at 1.5 mm nom. thickn.	**HB / ***	class	IEC 60695-11-10
Thickness tested	**1.6 / ***	mm	-

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Relative permittivity, 100Hz	**3.8 / -**	-	IEC 62631-2-1
[C] Relative permittivity, 1MHz	**3 / -**	-	IEC 62631-2-1
[C] Dissipation factor, 100Hz	**530 / -**	E-4	IEC 62631-2-1
[C] Dissipation factor, 1MHz	**280 / -**	E-4	IEC 62631-2-1
[C] Volume resistivity	**1E12 / -**	Ohm*m	IEC 62631-3-1

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
[C] Water absorption	**1.5 / ***	%	Sim. to ISO 62
[C] Humidity absorption	**0.8 / ***	%	Sim. to ISO 62
[C] Density	**1010 / -**	kg/m³	ISO 1183

[C]: CAMPUS

Characteristics

Processing
Injection Molding, Film Extrusion

Delivery form
Pellets

Special Characteristics
High impact or impact modified, Light stabilized or stable to light, Heat stabilized or stable to heat, Transparent

Features
Scratch Resistant, Tribologic Grade

Chemical Resistance
General Chemical Resistance

Applications
Sports Equipment

Regional Availability
North America, Europe, Asia Pacific, South and Central America, Near East/Africa