

Product Texts
Heat stabilized and light resistant polyamide 12 compound

VESTAMID® LX9012 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 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 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] 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	34 / -	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/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	N / -	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	13 / -	kJ/m ²	ISO 179/1eA
^[C] Type of failure	C / -	-	-
^[C] Charpy notched impact strength, -30°C	15 / -	kJ/m ²	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] Coeff. of linear therm. expansion, normal	125 / *	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] Comparative tracking index	575 / -	-	IEC 60112

[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/m ³	ISO 1183

[C]: CAMPUS

Characteristics

Processing

Injection Molding, Film Extrusion, Profile Extrusion, Other 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