

Product Texts

Electrically polyamide 12 compound for quick connectors

VESTAMID® LX9117 BK is a glass-fiber-reinforced, electrically conductive PA12 molding compound that was developed in particular for the injection molding of connecting elements for fuel line systems (such as quick connectors).

The electrical conductivity of VESTAMID® LX9117 BK changes only slightly on contact with fuels, even if they contain alcohol. This is of great importance for use in fuel-conducting systems.

The material also has the advantageous properties characteristic of polyamide 12. The low water absorption leads to good dimensional stability of components in changing ambient humidity, and the other properties also remain virtually unchanged.

VESTAMID® LX9117 BK is supplied as cylindrical granules, ready for processing, in moisture-proof bags.

Our technical experts would appreciate to give you support regarding the special requirements for the processing of VESTAMID® LX9117 BK.

The use of colorants may change property values.

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.

The results shown have been generated from a low number of production lots. Therefore, they are preliminary and not yet the result of a statistical evaluation. Therefore they must not be used to establish specifications.

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	0.3 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	0.8 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	7930 / -	MPa	ISO 527
^[C] Yield stress	127 / -	MPa	ISO 527
^[C] Yield strain	4 / -	%	ISO 527
^[C] Nominal strain at break	4 / -	%	ISO 527
^[C] Charpy impact strength, +23°C	70 / -	kJ/m ²	ISO 179/1eU
^[C] Type of failure	C / -	-	-
^[C] Charpy impact strength, -30°C	50 / -	kJ/m ²	ISO 179/1eU
^[C] Type of failure	C / -	-	-
^[C] Charpy notched impact strength, +23°C	10 / -	kJ/m ²	ISO 179/1eA
^[C] Type of failure	C / -	-	-
^[C] Charpy notched impact strength, -30°C	9 / -	kJ/m ²	ISO 179/1eA
^[C] Type of failure	C / -	-	-

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	177 / *	°C	ISO 11357-1/-3
^[C] Glass transition temperature, 10°C/min	40 / *	°C	ISO 11357-1/-2

[C] Temp. of deflection under load, 1.80 MPa	169 / *	°C	ISO 75-1/-2
[C] Temp. of deflection under load, 0.45 MPa	179 / *	°C	ISO 75-1/-2
[C] Vicat softening temperature, B	173 / *	°C	ISO 306

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
[C] Water absorption	1.1 / *	%	Sim. to ISO 62
[C] Humidity absorption	0.6 / *	%	Sim. to ISO 62
[C] Density	1330 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Test specimen production	Value	Unit	Test Standard
ISO Data			
[C] Injection Molding, melt temperature	250	°C	ISO 294
Injection Molding, mold temperature	80	°C	ISO 294
Injection Molding, injection velocity	200	mm/s	ISO 294

[C]: CAMPUS

Characteristics

Processing

Injection Molding, Casting

Delivery form

Pellets, Black

Additives

Release agent

Special Characteristics

Increased electrical conductivity, Light stabilized or stable to light, U.V. stabilized or stable to weather, Heat stabilized or stable to heat

Applications

Electrical and Electronical

Regional Availability

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