

Product Texts

Low viscosity, self-extinguishing polyamide 12 compound free of halogen

VESTAMID® LX9057 GN E60044 is a heat-stabilized compound with an efficient halogen-free flame retardant. Tested according to UL94, it complies with the flammability classification V-2.

The halogen-free formulation makes VESTAMID® LX9057 GN E60044 especially suitable for the electronic and cable industry.

VESTAMID® LX9057 GN E60044 can be used for injection molding as well as for wire extrusion coating. The semi-crystalline compounds based on PA12 only absorb small amounts of water.

Therefore manufactured parts exhibit excellent dimensional stability at changing ambient humidity, constant high toughness, low coefficient of friction and good chemical resistance.

Due to the presence of flame retardant the melt temperature should not exceed 240°C. We recommend melt temperatures of 200°C-220°C.

VESTAMID® LX9057 GN E60044 is supplied as cylindrical granules, ready for processing, in moisture-proof bags.

The use of colorants may affect 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.

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

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	1150 / -	MPa	ISO 527
^[C] Yield stress	36 / -	MPa	ISO 527
^[C] Yield strain	13 / -	%	ISO 527
^[C] Nominal strain at break	>50 / -	%	ISO 527
^[C] Charpy impact strength, +23°C	170 / -	kJ/m ²	ISO 179/1eU
^[C] Type of failure	C / -	-	-
^[C] Charpy notched impact strength, +23°C	3 / -	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	176 / *	°C	ISO 11357-1/-3
^[C] Burning Behav. at thickness h	V-2 / *	class	IEC 60695-11-10
Thickness tested	0.8 / *	mm	-

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Density	1080 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Test specimen production	Value	Unit	Test Standard
ISO Data			
^[C] Injection Molding, melt temperature	220	°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, Coating

Delivery form

Pellets

Special Characteristics

Flame retardant, Halogen-free, Heat stabilized or stable to heat

Features

Tribologic Grade

Chemical Resistance

General Chemical Resistance

Applications

Electrical and Electronical

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