

Product Texts

Heat stabilized polyamide 12 compound

VESTAMID® LX9042 NC is an easy mold release and heat stabilized compound. Due to its highly effective mold release agents, VESTAMID® LX9042 NC is suitable for the efficient production of injection molded parts with very short cycle times.

In addition, VESTAMID® LX9042 NC is nucleated to reduce the cycle time even further and/or to reduce the shrinkage.

Properties of compounds based on Polyamide12 vary little with changing humidity due to their low moisture absorption.

Parts made of this semicrystalline material are characterized by exceptional impact strength, low coefficient of friction and good chemical resistance.

VESTAMID® LX9042 NC is supplied as cylindrical granules, ready for processing, in moisture-proof bags.

The use of colorants may affect property values.

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] Melt volume-flow rate, MVR	9 / *	cm ³ /10min	ISO 1133
Temperature	220 / *	°C	-
Load	2.16 / *	kg	-
^[C] Molding shrinkage, parallel	0.7 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	0.7 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	1600 / -	MPa	ISO 527
^[C] Yield stress	47 / -	MPa	ISO 527
^[C] Yield strain	11 / -	%	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 notched impact strength, +23°C	4.6 / -	kJ/m ²	ISO 179/1eA
^[C] Type of failure	C / -	-	-
^[C] Charpy notched impact strength, -30°C	4.6 / -	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	180 / *	°C	ISO 11357-1/-3
^[C] Vicat softening temperature, B	154 / *	°C	ISO 306

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	0.04 / *	%	Sim. to ISO 62

[C]: CAMPUS

Characteristics**Processing**

Injection Molding

Delivery form

Pellets, Natural Color

Additives

Release agent

Special Characteristics

High impact or impact modified, Heat stabilized or stable to heat

Features

Nucleated, Tribologic Grade

Chemical Resistance

General Chemical Resistance

Regional Availability

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