VESTAMID® LX9043 NC

PA12 Evonik Operations GmbH

Product Texts

Heat-stabilized polyamide 12 molding compound with improved demoldability

VESTAMID® LX9043 NCis a semi-crystalline, low-viscosity molding compound based on PA12, from which various hollow articles can be produced by rotational molding. The polyamide 12 molding compound is especially suitable for industrial and technical applications with requirements for the manufacture of plastic products of different sizes. The semi-crystalline molding compound absorbs only small amounts of water. Components made from it therefore exhibit excellent dimensional stability under varying ambient humidity.

VESTAMID® LX9043 NC is supplied as cylindrical granules, ready for processing, in moisture-proof bags.
In the undamaged original packaging, the product has a shelf life of at least 2 years if stored in dry rooms at temperatures not exceeding 30°C.

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	Value	Unit	Test Standard
ISO Data			
[C] Melt volume-flow rate, MVR	**63**	cm³/10min	ISO 1133
Temperature	**230**	°C	-
Load	**5**	kg	-
[C] Molding shrinkage, parallel	**0.9**	%	ISO 294-4, 2577
[C] Molding shrinkage, normal	**1.2**	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**1107**	MPa	ISO 527
[C] Yield stress	**39**	MPa	ISO 527
[C] Yield strain	**13**	%	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	**5**	kJ/m²	ISO 179/1eA
[C] Type of failure	**C**	-	-
[C] Charpy notched impact strength, -30°C	**4**	kJ/m²	ISO 179/1eA
[C] Type of failure	**C**	-	-

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
[C] Melting temperature, 10°C/min	**178**	°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	**46**	°C	ISO 75-1/-2
[C] Temp. of deflection under load, 8.00 MPa	**96**	°C	ISO 75-1/-2
[C] Vicat softening temperature, B	**133**	°C	ISO 306

[C]: CAMPUS

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

[C]: CAMPUS

Characteristics

Processing
Thermoforming, Rotational Molding

Additives
Release agent

Delivery form
Pellets, Natural Color

Special Characteristics
Heat stabilized or stable to heat