

Product Texts

Medium viscosity polyamide 612 resin

VESTAMID® DX9330 NC is a PA 612 base polymer without any stabilizers and other additives.

VESTAMID® DX9330 NC is suitable for both extrusion as well as injection molding. Usually VESTAMID® DX9330 NC is only used in special cases when additives are not preferable, or processing aids are not necessary, e.g. filament extrusion.

Based on the perfect balance of amino and carboxyl end groups this material is easy to process and to dye. The typical characteristics of PA 612 are moderate water absorption, good dimensional stability and almost unchanged properties at varying ambient humidity.

VESTAMID® DX9330 NC is supplied as cylindrical granules, ready for processing, in moisture-proof bags. The processing temperature should be within a range of 250°C to 290°C.

Pigmentation may affect 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] Melt volume-flow rate, MVR	69 / *	cm ³ /10min	ISO 1133
Temperature	240 / *	°C	-
Load	10 / *	kg	-
^[C] Molding shrinkage, parallel	1.4 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	1.4 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	2196 / -	MPa	ISO 527
^[C] Yield stress	58 / -	MPa	ISO 527
^[C] Yield strain	4 / -	%	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	4.5 / -	kJ/m ²	ISO 179/1eA
^[C] Type of failure	C / -	-	-
^[C] Charpy notched impact strength, -30°C	4.5 / -	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	215 / *	°C	ISO 11357-1/-3
^[C] Glass transition temperature, 10°C/min	44 / *	°C	ISO 11357-1/-2
^[C] Temp. of deflection under load, 1.80 MPa	58 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	149 / *	°C	ISO 75-1/-2
^[C] Vicat softening temperature, B	180 / *	°C	ISO 306

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	2.8 / *	%	Sim. to ISO 62
^[C] Humidity absorption	1.4 / *	%	Sim. to ISO 62
^[C] Density	1060 / -	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, Other Extrusion

Applications

Filament for 3D Printing

Delivery form

Pellets, Natural Color

Regional Availability

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