

Product Texts

Low-viscosity PA612 resin

VESTAMID® DX9300 is a low-viscosity and heat-stabilized Polyamide 612 compound for injection moulding of e.g. retainers for quick connectors.

The material based on PA612 absorbs only small amounts of water. Components made of this material therefore show excellent dimensional stability under changing ambient humidity.

VESTAMID® DX9300 meets the requirements of the ISO 1874-PA612, MHR, 12-020.

VESTAMID® DX9300 is supplied as cylindrical granules in moisture-proof polyethylene containers ready for processing.

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.

For information about processing of VESTAMID®, please follow the general recommendations 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	1.1 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	1.5 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	2100 / 1700	MPa	ISO 527
^[C] Yield stress	59 / 52	MPa	ISO 527
^[C] Yield strain	5 / 20	%	ISO 527
^[C] Nominal strain at break	>50 / >50	%	ISO 527
^[C] Charpy impact strength, +23°C	N / N	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	N / N	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	6 / 8	kJ/m ²	ISO 179/1eA
^[C] Type of failure	C / C	-	-
^[C] Charpy notched impact strength, -30°C	6 / 6	kJ/m ²	ISO 179/1eA
^[C] Type of failure	C / C	-	-
^[C] Tensile notched impact strength, +23°C	119 / -	kJ/m ²	ISO 8256/1

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	215 / *	°C	ISO 11357-1/-3
^[C] Temp. of deflection under load, 1.80 MPa	65 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	155 / *	°C	ISO 75-1/-2
^[C] Vicat softening temperature, B	180 / *	°C	ISO 306
^[C] Coeff. of linear therm. expansion, parallel	130 / *	E-6/K	ISO 11359-1/-2
^[C] Burning Behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	1.6 / *	mm	-

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Relative permittivity, 100Hz	4 / -	-	IEC 62631-2-1
^[C] Relative permittivity, 1MHz	2.9 / -	-	IEC 62631-2-1
^[C] Dissipation factor, 100Hz	440 / -	E-4	IEC 62631-2-1
^[C] Dissipation factor, 1MHz	330 / -	E-4	IEC 62631-2-1
^[C] Volume resistivity	1E12 / -	Ohm*m	IEC 62631-3-1
^[C] Comparative tracking index	600 / -	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	2.6 / *	%	Sim. to ISO 62
^[C] Humidity absorption	1 / *	%	Sim. to ISO 62
^[C] Density	1060 / 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
Injection Molding, pressure at hold	70	MPa	ISO 294

[C]: CAMPUS

Characteristics

Processing

Injection Molding

Delivery form

Pellets

Additives

Lubricants, Release agent

Special Characteristics

Heat stabilized or stable to heat

Regional Availability

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