

Product Texts

High-viscosity, plasticized, heat- and light-stabilized, impact-modified polyamide 612 compound for extrusion

VESTAMID® DX9303 BK E70288 is a PA 612 extrusion compound developed for the production of tubing systems with higher requirements for heat resistance.

The melting point of VESTAMID® DX9303 BK E70288 is about 35°C higher than PA 11 and PA 12 compounds, allows higher peak temperatures in use. Thereby this compound fulfills the increased demands resulting from higher temperatures in the engine compartment.

If it is intended to use VESTAMID® DX9303 BK E70288 for fuel lines, certain preconditions must be observed. The Technical Marketing assists you in finding the suitable VESTAMID® compound.

At temperatures above 100°C tubing of VESTAMID® DX9303 BK E70288 allow a higher pressure load than tubing made of PA 12 compounds with comparable flexibility.

The process temperatures should be in the range of 240-270°C.

The material absorbs only little moisture. Therefore dimensions and properties of parts are nearly unaffected through ambient conditions.

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] Melt volume-flow rate, MVR	11 / *	cm ³ /10min	ISO 1133
Temperature	275 / *	°C	-
Load	5 / *	kg	-
^[C] Molding shrinkage, parallel	2.7 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	0.9 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	900 / 680	MPa	ISO 527
^[C] Yield stress	38 / -	MPa	ISO 527
^[C] Yield strain	30 / -	%	ISO 527
^[C] Nominal strain at break	>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	87 / 135	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	11 / 15	kJ/m ²	ISO 179/1eA
^[C] Type of failure	C / C(P)^[C(P)]	-	-
^[C] Shore D hardness	70 / *	-	ISO 7619-1

C(P): CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	211 / *	°C	ISO 11357-1/-3

[C] Glass transition temperature, 10°C/min	20 / *	°C	ISO 11357-1/-2
[C] Temp. of deflection under load, 1.80 MPa	60 / *	°C	ISO 75-1/-2
[C] Temp. of deflection under load, 0.45 MPa	142 / *	°C	ISO 75-1/-2
[C] Vicat softening temperature, B	159 / *	°C	ISO 306
[C] Coeff. of linear therm. expansion, parallel	150 / *	E-6/K	ISO 11359-1/-2
[C] Coeff. of linear therm. expansion, normal	120 / *	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	4.7 / -	-	IEC 62631-2-1
[C] Relative permittivity, 1MHz	2.7 / -	-	IEC 62631-2-1
[C] Dissipation factor, 100Hz	1450 / -	E-4	IEC 62631-2-1
[C] Dissipation factor, 1MHz	400 / -	E-4	IEC 62631-2-1
[C] Volume resistivity	2E10 / 5.3E8	Ohm*m	IEC 62631-3-1
[C] Electric strength	39 / 34	kV/mm	IEC 60243-1
[C] Comparative tracking index	600 / -	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
[C] Water absorption	2.4 / *	%	Sim. to ISO 62
[C] Humidity absorption	1 / *	%	Sim. to ISO 62
[C] Density	1050 / -	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

Pipe/Tube Extrusion, Other Extrusion

Delivery form

Pellets, Black

Additives

Plasticizer

Special Characteristics

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

Regional Availability

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