

Product Texts

High viscosity, self-extinguishing PA12 compound, free of halogen and phosphorus

VESTAMID® X7167 NC is a heat stabilized PA12 compound containing a non-migrating flame retardant, free of halogen and phosphorous.

VESTAMID® X7167 NC complies with the requirements of FAR 25.853 or ABD 0031. The absence of halogens and phosphorous makes VESTAMID® X7167 NC especially suitable for interior parts in aircrafts, railways and ships.

This resin can be used for extrusion as well as for injection molding. Due to the presence of flame retardant melt temperature should not exceed 260 °C. We recommend melt temperatures of 210 - 230 °C.

VESTAMID® X7167 NC is supplied as cylindrical pellets, ready for use, in moisture-proof bags.

The use of colorants may affect property 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 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	4.1 / *	cm ³ /10min	ISO 1133
Temperature	230 / *	°C	-
Load	2.16 / *	kg	-
^[C] Molding shrinkage, parallel	0.6 / *	%	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	1700 / 1440	MPa	ISO 527
^[C] Yield stress	47 / 42	MPa	ISO 527
^[C] Yield strain	5 / 13	%	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	7 / 9	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]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	178 / *	°C	ISO 11357-1/-3
^[C] Temp. of deflection under load, 1.80 MPa	50 / *	°C	ISO 75-1/-2

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^[C] Temp. of deflection under load, 0.45 MPa	130 / *	°C	ISO 75-1/-2
^[C] Vicat softening temperature, B	150 / *	°C	ISO 306
^[C] Burning Behav. at 1.5 mm nom. thickn. Thickness tested	V-2 / * 1.6 / *	class mm	IEC 60695-11-10 -
^[C] Oxygen index	26 / *	%	ISO 4589-1/-2

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Relative permittivity, 100Hz	- / 4.8	-	IEC 62631-2-1
^[C] Relative permittivity, 1MHz	3.6 / 3.2	-	IEC 62631-2-1
^[C] Dissipation factor, 100Hz	- / 800	E-4	IEC 62631-2-1
^[C] Dissipation factor, 1MHz	380 / 400	E-4	IEC 62631-2-1
^[C] Volume resistivity	1E12 / 2E12	Ohm*m	IEC 62631-3-1
^[C] Electric strength	34 / 36	kV/mm	IEC 60243-1
^[C] Comparative tracking index	600 / -	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	1.5 / *	%	Sim. to ISO 62
^[C] Humidity absorption	0.6 / *	%	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	240	°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, Profile Extrusion, Other Extrusion

Delivery form

Pellets, Natural Color

Additives

Lubricants

Special Characteristics

Flame retardant, Halogen-free, Phosphorus-free, Heat stabilized or stable to heat

Applications

Aircraft and Aerospace

Regional Availability

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