

Product Texts

High viscosity, plasticized, impact-modified, heat- and light stabilized PA 12 compound

VESTAMID® X7297 BK 9.7507 is a plasticized polyamide 12 compound with heat and light stabilizer for the extrusion of flexible tubing and hose especially for automotive applications.

VESTAMID® X7297 BK 9.7507 is characterized by easy processing as well as high impact strength at low temperatures.

Properties of compounds based on polyamide 12 vary little with changing humidity due to low moisture absorption. Parts made of this semi-crystalline material are characterized by exceptional impact strength, low coefficient of friction and good chemical resistance.

VESTAMID® X7297 BK 9.7507 is supplied as cylindrical pellets, ready for processing, 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	13 / *	cm ³ /10min	ISO 1133
Temperature	230 / *	°C	-
Load	5 / *	kg	-
^[C] Molding shrinkage, parallel	0.9 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	1.3 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	390 / 390	MPa	ISO 527
^[C] Yield stress	26 / 25	MPa	ISO 527
^[C] Yield strain	37 / 37	%	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	122 / 130	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	6 / 8	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	171 / *	°C	ISO 11357-1/-3
^[C] Glass transition temperature, 10°C/min	41 / *	°C	ISO 11357-1/-2
^[C] Temp. of deflection under load, 1.80 MPa	51 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	135 / *	°C	ISO 75-1/-2
^[C] Vicat softening temperature, B	125 / *	°C	ISO 306

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Relative permittivity, 100Hz	11.4 / 13.7	-	IEC 62631-2-1
^[C] Relative permittivity, 1MHz	3.6 / 3.8	-	IEC 62631-2-1
^[C] Dissipation factor, 100Hz	1850 / 2260	E-4	IEC 62631-2-1
^[C] Dissipation factor, 1MHz	1040 / 1570	E-4	IEC 62631-2-1
^[C] Volume resistivity	3.3E9 / 6.3E8	Ohm*m	IEC 62631-3-1
^[C] Electric strength	36 / 36	kV/mm	IEC 60243-1

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	1.4 / *	%	Sim. to ISO 62
^[C] Humidity absorption	0.8 / *	%	Sim. to ISO 62
^[C] Density	1020 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Test specimen production	Value	Unit	Test Standard
ISO Data			
^[C] Injection Molding, melt temperature	220	°C	ISO 294
Injection Molding, mold temperature	60	°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, U.V. stabilized or stable to weather, Heat stabilized or stable to heat

Features

Tribologic Grade

Chemical Resistance

General Chemical Resistance

Applications

Automotive

Regional Availability

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