

Product Texts

High viscosity, plasticized PA12-Plastic resin for the extrusion

VESTAMID® L2123 BK 9.7507 is a plasticized and high-viscosity polyamide 12 compound for the extrusion of flexible tubing and hoses especially for automotive industry. Tubing according to DIN 73 378, Type: PA 12-PHL.

Properties of compounds based on PA 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® L2123 BK 9.7507 is characterized by a high melt viscosity, optimized cold temperature impact resistance and good dimensional control during pipe extrusion.

VESTAMID® L2123 BK 9.7507 is supplied as cylindrical granules, ready for processing, in moisture-proof bags.

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 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	40 / *	cm ³ /10min	ISO 1133
Temperature	275 / *	°C	-
Load	5 / *	kg	-

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	420 / 400	MPa	ISO 527
^[C] Yield stress	26 / 25	MPa	ISO 527
^[C] Yield strain	32 / 30	%	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	106 / N	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	13 / 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] Temp. of deflection under load, 1.80 MPa	45 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	80 / *	°C	ISO 75-1/-2
^[C] Vicat softening temperature, B	120 / *	°C	ISO 306
^[C] Coeff. of linear therm. expansion, parallel	170 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	180 / *	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	10 / -	-	IEC 62631-2-1
^[C] Relative permittivity, 1MHz	3.6 / -	-	IEC 62631-2-1
^[C] Dissipation factor, 100Hz	2000 / -	E-4	IEC 62631-2-1
^[C] Dissipation factor, 1MHz	1100 / -	E-4	IEC 62631-2-1
^[C] Volume resistivity	>1E13 / -	Ohm*m	IEC 62631-3-1
^[C] Comparative tracking index	600 / -	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Humidity absorption	0.6 / *	%	Sim. to ISO 62
^[C] Density	1030 / -	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
Injection Molding, pressure at hold	70	MPa	ISO 294

[C]: CAMPUS

Characteristics

Processing

Pipe/Tube Extrusion, Other Extrusion

Delivery form

Pellets, Black

Additives

Lubricants, 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