

Product Texts

Medium-viscosity, heat-stabilized glass fiber-reinforced polyamide 12 compound

VESTAMID® L-GF50 BK 9.7506 is a 50% glass fiber-reinforced, easily demoldable and heat-stabilized polyamide 12 compound.

Due to its mold release properties, VESTAMID® L-GF50 BK 9.7506 is suitable for the efficient production of injection molded parts with short cycle times.

Further advantages of VESTAMID® L-GF50 BK 9.7506 are the characteristic properties of polyamide 12 as low water absorption, good dimensional stability and almost the same properties at changing ambient humidity.

VESTAMID® L-GF50 BK 9.7506 is supplied as cylindrical granules, ready for processing, in moisture-proof bags.

The use of colorants may change 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	9 / *	cm³/10min	ISO 1133
Temperature	275 / *	°C	-
Load	2.16 / *	kg	-
^[C] Molding shrinkage, parallel	0.2 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	0.7 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	12000 / -	MPa	ISO 527
^[C] Charpy impact strength, +23°C	90 / -	kJ/m²	ISO 179/1eU
^[C] Type of failure	C / -	-	-
^[C] Charpy impact strength, -30°C	90 / -	kJ/m²	ISO 179/1eU
^[C] Type of failure	C / -	-	-
^[C] Charpy notched impact strength, +23°C	25 / -	kJ/m²	ISO 179/1eA
^[C] Type of failure	C / -	-	-
^[C] Charpy notched impact strength, -30°C	17 / -	kJ/m²	ISO 179/1eA
^[C] Type of failure	C / -	-	-

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	177 / *	°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	172 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	179 / *	°C	ISO 75-1/-2
^[C] Vicat softening temperature, B	175 / *	°C	ISO 306
^[C] Coeff. of linear therm. expansion, parallel	14 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	131 / *	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] Burning Behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	0.8 / *	mm	-

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Relative permittivity, 100Hz	4.9 / -	-	IEC 62631-2-1
^[C] Relative permittivity, 1MHz	3.8 / -	-	IEC 62631-2-1
^[C] Dissipation factor, 100Hz	510 / -	E-4	IEC 62631-2-1
^[C] Dissipation factor, 1MHz	320 / -	E-4	IEC 62631-2-1
^[C] Volume resistivity	1E12 / -	Ohm*m	IEC 62631-3-1
^[C] Electric strength	33 / -	kV/mm	IEC 60243-1
^[C] Comparative tracking index	600 / -	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	0.83 / *	%	Sim. to ISO 62
^[C] Humidity absorption	0.44 / *	%	Sim. to ISO 62
^[C] Density	1450 / -	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

Injection Molding

Delivery form

Pellets, Black

Additives

Release agent

Special Characteristics

Heat stabilized or stable to heat

Regional Availability

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