VESTAMID® L1930 BK 9.7506

PA12-GD30 Evonik Operations GmbH

Product Texts

Glass fiber-reinforced, heat- stabilized polyamide 12 compound

VESTAMID® L1930 BK 9.7506 is a heat stabilized, with 30% milled glass fiber-reinforced PA 12 compound suitable for injection molding.

Due to the reinforcement moldings from this compound exhibit a high strength and rigidity. Because PA 12 absorbs only little water, the parts have a good dimensional stability and almost unaffected mechanical properties at changing ambient humidity.

Due to the reinforcement the shrinking of moldings is decreased compared with unreinforced compounds. Using specialty short glass fibers for the reinforcement of VESTAMID® L1930 BK 9.7506 the difference between longitudinal and transverse shrinkage relating to the flow direction of the melt is significantly lower than with common glass fiber-reinforced products. Therefore especially low-warpage precision parts can be molded.

As a semi-crystalline material VESTAMID® L1930 BK 9.7506 feature an outstanding chemical resistance, e.g., against fuels, oils and fats.

VESTAMID® L1930 BK 9.7506 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	**27 / ***	cm³/10min	ISO 1133
Temperature	**220 / ***	°C	-
Load	**10 / ***	kg	-
[C] Molding shrinkage, parallel	**0.5 / ***	%	ISO 294-4, 2577
[C] Molding shrinkage, normal	**0.5 / ***	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**3800 / -**	MPa	ISO 527
[C] Yield stress	**64 / -**	MPa	ISO 527
[C] Yield strain	**4 / -**	%	ISO 527
[C] Nominal strain at break	**12 / -**	%	ISO 527
[C] Charpy impact strength, +23°C	**80 / -**	kJ/m²	ISO 179/1eU
[C] Type of failure	**C / -**	-	-
[C] Charpy impact strength, -30°C	**65 / -**	kJ/m²	ISO 179/1eU
[C] Type of failure	**C / -**	-	-
[C] Charpy notched impact strength, +23°C	**7 / -**	kJ/m²	ISO 179/1eA
[C] Type of failure	**C / -**	-	-
[C] Charpy notched impact strength, -30°C	**6 / -**	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	**178 / ***	°C	ISO 11357-1/-3
[C] Glass transition temperature, 10°C/min	**39 / ***	°C	ISO 11357-1/-2
[C] Temp. of deflection under load, 1.80 MPa	**130 / ***	°C	ISO 75-1/-2
[C] Temp. of deflection under load, 0.45 MPa	**170 / ***	°C	ISO 75-1/-2
[C] Vicat softening temperature, B	**170 / ***	°C	ISO 306

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Volume resistivity	**1E13 / -**	Ohm*m	IEC 62631-3-1

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
[C] Water absorption	**1.1 / ***	%	Sim. to ISO 62
[C] Humidity absorption	**0.5 / ***	%	Sim. to ISO 62
[C] Density	**1240 / -**	kg/m³	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

Special Characteristics
Heat stabilized or stable to heat

Features
Low Warpage

Chemical Resistance
General Chemical Resistance, Grease Resistance, Oil Resistance

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