

Product Texts

Glass fiber-reinforced, easily demoldable and heat-stabilized polyamide 12 compound

VESTAMID® L1833 BK 9.7623 is a 23% glass fiber-reinforced, easily demoldable and heat-stabilized polyamide 12 compound.

Due to its mold release properties, VESTAMID® L1833 BK 9.7623 is suitable for the efficient production of injection molded parts with short cycle times.

VESTAMID® L1833 BK 9.7623 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	41 / *	cm ³ /10min	ISO 1133
Temperature	275 / *	°C	-
Load	5 / *	kg	-
^[C] Molding shrinkage, parallel	0.3 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	0.6 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	5500 / 4650	MPa	ISO 527
^[C] Yield stress	106 / 100	MPa	ISO 527
^[C] Yield strain	4 / 5	%	ISO 527
^[C] Nominal strain at break	7 / 7	%	ISO 527
^[C] Charpy impact strength, +23°C	90 / 81	kJ/m ²	ISO 179/1eU
^[C] Type of failure	C / C	-	-
^[C] Charpy impact strength, -30°C	95 / 83	kJ/m ²	ISO 179/1eU
^[C] Type of failure	C / C	-	-
^[C] Charpy notched impact strength, +23°C	25 / 18	kJ/m ²	ISO 179/1eA
^[C] Type of failure	C / C	-	-
^[C] Charpy notched impact strength, -30°C	16 / 13	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] Glass transition temperature, 10°C/min	40 / *	°C	ISO 11357-1/-2
^[C] Temp. of deflection under load, 1.80 MPa	160 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	175 / *	°C	ISO 75-1/-2
^[C] Vicat softening temperature, B	175 / *	°C	ISO 306
^[C] Coeff. of linear therm. expansion, parallel	70 / *	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	2.6 / -	-	IEC 62631-2-1
^[C] Relative permittivity, 1MHz	2.3 / -	-	IEC 62631-2-1
^[C] Dissipation factor, 1MHz	158 / -	E-4	IEC 62631-2-1
^[C] Volume resistivity	1E13 / 2.3E12	Ohm*m	IEC 62631-3-1
^[C] Electric strength	- / 49	kV/mm	IEC 60243-1
^[C] Comparative tracking index	600 / -	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	1.2 / *	%	Sim. to ISO 62
^[C] Humidity absorption	0.6 / *	%	Sim. to ISO 62
^[C] Density	1170 / -	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

[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