

**Product Texts**

**Milled glass fiber filled PA 12-Plastic resin for the injection molding**

**VESTAMID® L1930 NC** is a heat stabilized, with 30% milled glass fiber-reinforced PA 12 compound suitable for injection molding of stiff, relatively warp free molded parts.

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 NC 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 NC feature an outstanding chemical resistance, e.g., against fuels, oils and fats.

VESTAMID® L1930 NC is supplied as cylindrical pellets in moisture-proof packaging.

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](mailto:EVONIK-HP@EVONIK.COM)  
OR VISIT OUR PRODUCT AT [WWW.VESTAMID.COM](http://WWW.VESTAMID.COM)

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Melt volume-flow rate, MVR	<b>24 / *</b>	cm <sup>3</sup> /10min	ISO 1133
Temperature	<b>240 / *</b>	°C	-
Load	<b>5 / *</b>	kg	-
<sup>[C]</sup> Molding shrinkage, parallel	<b>0.7 / *</b>	%	ISO 294-4, 2577
<sup>[C]</sup> Molding shrinkage, normal	<b>0.6 / *</b>	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Tensile Modulus	<b>3740 / -</b>	MPa	ISO 527
<sup>[C]</sup> Yield stress	<b>63 / -</b>	MPa	ISO 527
<sup>[C]</sup> Yield strain	<b>4.5 / -</b>	%	ISO 527
<sup>[C]</sup> Nominal strain at break	<b>12 / -</b>	%	ISO 527
<sup>[C]</sup> Charpy impact strength, +23°C	<b>89 / -</b>	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Type of failure	<b>C / -</b>	-	-
<sup>[C]</sup> Charpy impact strength, -30°C	<b>65 / -</b>	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Type of failure	<b>C / -</b>	-	-
<sup>[C]</sup> Charpy notched impact strength, +23°C	<b>8 / -</b>	kJ/m <sup>2</sup>	ISO 179/1eA
<sup>[C]</sup> Type of failure	<b>C / -</b>	-	-
<sup>[C]</sup> Charpy notched impact strength, -30°C	<b>11 / -</b>	kJ/m <sup>2</sup>	ISO 179/1eA
<sup>[C]</sup> Type of failure	<b>C / -</b>	-	-

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Melting temperature, 10°C/min	178 / *	°C	ISO 11357-1/-3
<sup>[C]</sup> Temp. of deflection under load, 1.80 MPa	130 / *	°C	ISO 75-1/-2
<sup>[C]</sup> Temp. of deflection under load, 0.45 MPa	170 / *	°C	ISO 75-1/-2
<sup>[C]</sup> Vicat softening temperature, B	170 / *	°C	ISO 306
<sup>[C]</sup> Coeff. of linear therm. expansion, parallel	50 / *	E-6/K	ISO 11359-1/-2
<sup>[C]</sup> Coeff. of linear therm. expansion, normal	50 / *	E-6/K	ISO 11359-1/-2
<sup>[C]</sup> Burning Behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	-
Yellow Card available	yes / *	-	-
<sup>[C]</sup> Burning Behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	0.8 / *	mm	-
Yellow Card available	yes / *	-	-

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Relative permittivity, 100Hz	4.1 / -	-	IEC 62631-2-1
<sup>[C]</sup> Relative permittivity, 1MHz	3.4 / -	-	IEC 62631-2-1
<sup>[C]</sup> Dissipation factor, 100Hz	310 / -	E-4	IEC 62631-2-1
<sup>[C]</sup> Dissipation factor, 1MHz	240 / -	E-4	IEC 62631-2-1
<sup>[C]</sup> Volume resistivity	>1E13 / -	Ohm*m	IEC 62631-3-1
<sup>[C]</sup> Comparative tracking index	600 / -	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
<sup>[C]</sup> Water absorption	1.1 / *	%	Sim. to ISO 62
<sup>[C]</sup> Humidity absorption	0.5 / *	%	Sim. to ISO 62
<sup>[C]</sup> Density	1240 / -	kg/m <sup>3</sup>	ISO 1183

[C]: CAMPUS

Test specimen production	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> 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
Injection Molding, pressure at hold	70	MPa	ISO 294

[C]: CAMPUS

**Characteristics**

**Processing**

Injection Molding

**Delivery form**

Pellets, Natural Color

**Additives**

Lubricants

**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