

Product Information

VESTAMID® Terra DS16–GF30

Medium viscosity, easily demoldable, glass fiber-reinforced, heat-stabilized polyamide 1010 compound for injection molding

VESTAMID Terra DS16–GF30 is a 30 % glass fiber-reinforced, easily demoldable and heat-stabilized polyamide 1010 compound.

Due to its mold release properties, VESTAMID Terra DS16–GF30 is suitable for the efficient production of injection molded parts with short cycle times.

The parts are characterized by exceptional heat deflection temperature, a high durability and a good dimensional stability.

VESTAMID Terra DS16–GF30 is supplied as cylindrical granules, ready for processing, in moisture-proof bags.

VESTAMID® Terra is a group of new polyamides, the monomers for which are based entirely or partly on renewable raw materials.

VESTAMID® Terra DS is the polycondensation product of 1,10-decamethylene diamine (D) and 1,10-decanedioic acid (sebacic acid—S). Because both monomers are extracted from castor oil, VESTAMID® Terra DS is a material that is based 100% on natural resources.

For further information, please contact our experts in the department Market Development of the High Performance Polymers Business Line.

Property	Test method		Unit	VESTAMID Terra DS16-GF30	
	international	national			
Density	23°C	ISO 1183	DIN EN ISO 1183	g/cm ³	1.29
Tensile test		ISO 527-1	DIN EN ISO 527-1		
Stress at yield		ISO 527-2	DIN EN ISO 527-2	MPa	130
Strain at yield				%	5
Strain at break				%	5
Tensile modulus		ISO 527-1	DIN EN ISO 527-1	MPa	7500
		ISO 527-2	DIN EN ISO 527-2		
CHARPY impact strength		ISO 179/1eU	DIN EN ISO 179/1eU		
	23°C			kJ/m ²	100 C ¹⁾
	-30°C			kJ/m ²	100 C ¹⁾
CHARPY notched impact strength		ISO 179/1eA	DIN EN ISO 179/1eA		
	23°C			kJ/m ²	19 C ¹⁾
	-30°C			kJ/m ²	12 C ¹⁾
Vicat softening temperature		ISO 306	DIN EN ISO 306		
Method A	10 N			°C	201
Method B	50 N			°C	196
Water absorption		ISO 62	DIN EN ISO 62		
	saturation			%	1.4
Viscosity number		ISO 307	DIN EN ISO 307	cm ³ /g	160
Melting range		ISO 11357			
DSC	2 nd heating			°C	206
Percentage of Renewable Carbon (calculation)		ASTM 6866		%	100
Global Warming Potential (GWP)*		Evonik, PE International		kg CO ₂ equivalents/ kg material	3.3

The results shown have been generated from a low number of production lots. Therefore, they are preliminary and not yet the result of a statistical evaluation. Therefore they must not be used to establish specifications.

*preliminary data

¹⁾ C = Complete break, incl. hinge break H

® = registered trademark

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