VESTAMID® Terra DS18-GF30

Polyamide 1010

Evonik Industries AG

Message:

Medium viscosity, easily demoldable, glass fiber-reinforced, heat-stabilized polyamide 1010 compound for injection molding.
VESTAMID®Terra DS18-GF30 is a 30 % glass fiber-reinforced, easily demoldable and heat-stabilized polyamide 1010 compound.
Due to its mold release properties, VESTAMID Terra DS18-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 DS18-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.
Global Warming Potential (GWP) 3.3kg CO2 by Evonik, PE International.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Heat Stabilizer		
Features	Durable		
	Good Dimensional Stability		
	Heat Stabilized		
	Low to No Water Absorption		
	Renewable Resource Content		
Uses	Film		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density (23°C)	1.29	g/cm³	ISO 1183
Water Absorption (Saturation, 23°C)	1.4	%	Internal Method
Viscosity Number	180	cm³/g	ISO 307
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	7400	MPa	ISO 527-2
Tensile Stress (Yield)	136	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield	4.0	%	
Break	5.0	%	
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-30°C, Complete Break	11	kJ/m²	
23°C, Complete Break	19	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	96	kJ/m²	
23°C	96	kJ/m²	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature			

--	201	°C	ISO 306/A
--	196	°C	ISO 306/B
Melting Temperature [1]	206	°C	ISO 11357-3

Additional Information	Nominal Value	Unit
Renewable Carbon Conent	100	%

NOTE	
1.	2nd Heating

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

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