

VESTAMID® Terra DS16-GF30

Polyamide 1010
Evonik Industries AG

Message:

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. 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	160	cm³/g	ISO 307
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7500	MPa	ISO 527-2
Tensile Stress (Yield)	130	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield	5.0	%	
Break	5.0	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C, Complete Break	12	kJ/m²	
23°C, Complete Break	19	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	100	kJ/m²	
23°C	100	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 Content	100	%	
NOTE			
1.	2nd Heating		

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