VESTAMID® Terra DS16 natural color

Polyamide 1010

Evonik Industries AG

Message:

Medium viscosity polyamide 1010
VESTAMID®Terra DS16 natural color is a medium viscosity PA 1010 basic polymer. VESTAMID Terra DS16 is semi-crystalline, which is the reason for its high mechanical resistance and chemical stability. It absorbs only little water. As a result its mechanical properties vary little when exposed to changing environmental humidity, and the material features a high dimensional stability.
VESTAMID®Terra DS16 can be used to manufacture films with good transparency. The high melting point of VESTAMID Terra DS16 compounds results in a high heat deflection temperature that can be advantageous for some applications.
VESTAMID®Terra DS16 occupies a position between the high-performance long-chain polyamides such as PA 12 and PA 1212 and the standard polyamides PA 6 and PA 66, which have a shorter chain length.
Because of its chemical and physical properties, and the plant origin of its monomers, VESTAMID Terra DS16 is an interesting addition to conventional longer-chain polyamides, and it also meets the growing demand for materials made from renewable raw materials.
VESTAMIDTerra DS16 natural color 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 based on natural, renewable resources up to 100%.
Global Warming Potential (GWP) 2.8 kg CO2 By Evonik, PE International.

General Information			
Features	Good Dimensional Stability		
	High Clarity		
	Low to No Water Absorption		
	Medium Viscosity		
	Renewable Resource Content		
	Semi Crystalline		
Uses	Bags		
	Film		
Appearance	Natural Color		
Forms	Granules		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density (23°C)	1.05	g/cm³	ISO 1183
Water Absorption (Saturation, 23°C)	1.8	%	ISO 62
Viscosity Number	160	cm³/g	ISO 307
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	1700	MPa	ISO 527-2
Tensile Stress (Yield)	54.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield	5.0	%	
Break	> 50	%	
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA

-30°C, Complete Break	7.0	kJ/m²	
23°C, Complete Break	7.0	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	No Break		
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature			
--	196	°C	ISO 306/A
--	171	°C	ISO 306/B
Melting Temperature [1]	200	°C	ISO 11357
Additional Information	Nominal Value	Unit	Test Method
Renewable Carbon Conent	100	%	ASTM D6866
NOTE			
1.	2nd Heating		

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

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