

VESTAMID® Terra DD-G16

Polyamide 1012

Evonik Industries AG

Message:

VESTAMID® Terra DD-G16 is an unmodified, easy-flowing, tough-improved PA 1012 resin for injection molding or modification by a compounding process.

Due to its semi-crystalline morphology VESTAMID® Terra DD-G16 provides an excellent chemical resistance, e.g., against greases, oils, fuels and hydraulic fluids.

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

VESTAMID® Terra DD-G16 is a development product of the VESTAMID® Terra DD product range. VESTAMID® Terra DD is the polycondensation product of 1,10-decamethylene diamine (D) and 1,12-dodecanedioic acid (D). Because both monomers are extracted from plant oils, VESTAMID® Terra DD is a material that is based 100% on natural resources.

General Information			
Features	Good Chemical Resistance		
	Good Flow		
	Medium Viscosity		
	Renewable Resource Content		
	Semi Crystalline		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.03	g/cm ³	ISO 1183
Water Absorption (Saturation, 23°C)	1.6	%	ISO 62
Viscosity Number	160	cm ³ /g	ISO 307
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	1300	MPa	ISO 527-2
Tensile Stress (Yield)	40.0	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	16	kJ/m ²	
23°C, Complete Break	12	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	No Break		
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature			
--	188	°C	ISO 306/A
--	168	°C	ISO 306/B
Melting Temperature ¹	190	°C	ISO 11357

Additional Information	Nominal Value	Unit	Test Method
Renewable Carbon Conent	100	%	ASTM D6866
NOTE			
1.	2nd Heating		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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