

VESTAMID® HTplus M3033

Polyphthalamide

Evonik Industries AG

Message:

VESTAMID HTplus M3033 is a PA 10T-based, black colored, glass-fiber reinforced (30%), heat-stabilized copolyamide. PA 10T is a poly-condensation product of 1,10-decamethylene diamine (10) and terephthalic acid (T). As 1,10-decamethylene diamine is derived from castor oil plants, VESTAMID HTplus M3033 is partially natural resourced and thus bio-based.

Compared to PA 6T-based resins VESTAMID HTplus M3033 has a broader processing window as well as a reduced tendency to absorb water. Therefore the material exhibits less variation in mechanical properties and dimensional changes with humidity.

This resin is especially suited for manufacturing parts subjected to high temperature.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Heat Stabilizer		
Features	Heat Stabilized		
	High Heat Resistance		
Uses	High Temperature Applications		
Appearance	Black		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.36	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9400	MPa	ISO 527-2/1
Tensile Stress (Break)	169	MPa	ISO 527-2
Tensile Strain (Break)	2.4	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-40°C, Complete Break	7.5	kJ/m ²	
23°C, Complete Break	8.6	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-40°C, Complete Break	52	kJ/m ²	
23°C, Complete Break	56	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	284	°C	ISO 75-2/B
1.8 MPa, Unannealed	263	°C	ISO 75-2/A
Melting Temperature ¹	285	°C	ISO 11357
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	> 4.0	hr	
NOTE			

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Recommended distributors for this material

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