

VESTAMID® HTplus M3000 NC

Polyphthalamide
Evonik Industries AG

Message:

VESTAMID HTplus M3000 nc is a natural colored PA 10T-based copolyamide. PA 10T is a polycondensation product of 1,10-decamethylene diamine (10) and terephthalic acid (T). As 1,10-decamethylene diamine is derived from castor oil, VESTAMID HT plus M3000 nc is partially natural resourced and thus bio-based.

Compared to PA 6T-based resins VESTAMID HT plus M3000 nc 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.

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

General Information			
Additive	Heat Stabilizer		
Features	Heat Stabilized		
	High Heat Resistance		
Uses	High Temperature Applications		
Appearance	Natural Color		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.10	g/cm³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2700	MPa	ISO 527-2/1
Tensile Stress (Break)	73.0	MPa	ISO 527-2
Tensile Strain (Break)	5.0	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-40°C, Complete Break	5.5	kJ/m²	
23°C, Complete Break	6.4	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-40°C, Complete Break	60	kJ/m²	
23°C, Complete Break	60	kJ/m²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	225	°C	ISO 75-2/B
1.8 MPa, Unannealed	128	°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			

1. 2nd Heating

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