

VESTAMID® HTplus C2505

Polyphthalamide

Evonik Industries AG

Message:

VESTAMID HTplus C2505 is a freeze ground powder based on a PA10T-copolyamide. PA10T is a polycondensation product of 1,10-decamethylene diamine (10) and terephthalic acid (T). As 1,10-decamethylene diamine is derived from castor oil plants, VESTAMID HTplus C2505 is partially natural resourced and thus bio-based.

VESTAMID HT plus C2505 exhibits a particle size up to 63 µm.

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

General Information			
Features	High Heat Resistance		
Forms	Powder		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.11	g/cm ³	ISO 1183
Particle Size Distribution			
d 10	20.0	µm	
d 50	50.0	µm	
d 90	80.0	µm	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2100	MPa	ISO 527-2
Tensile Stress (Break)	62.0	MPa	ISO 527-2
Tensile Strain (Break)	> 100	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-40°C, Complete Break	15	kJ/m ²	
23°C, Complete Break	18	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-40°C, Complete Break	> 100	kJ/m ²	
23°C, Complete Break	No Break		
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	130	°C	ISO 75-2/B
1.8 MPa, Unannealed	124	°C	ISO 75-2/A
Melting Temperature (DSC) ¹	265	°C	ISO 11357
NOTE			

1. 2nd heating

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