



Product Information

VESTAMID® HT*plus* C2505

Polyphthalamide powder based on PA10T

VESTAMID HT*plus* 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 HT*plus* 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.

VESTAMID HT*plus* C2505 is supplied as powder in 15 kg boxes with polyethylene inliner.

Property	Test method		Unit	VESTAMID HT <i>plus</i> C2505	
	international	national			
Density	23°C	ISO 1183	DIN EN ISO 1183	g/cm ³	1.11
Tensile test		ISO 527-1	DIN EN ISO 527-1		
Stress at break		ISO 527-2	DIN EN ISO 527-2	MPa	62
Strain at break				%	>100
Tensile modulus		ISO 527-1	DIN EN ISO 527-1	MPa	2100
		ISO 527-2	DIN EN ISO 527-2		
CHARPY impact strength		ISO 179/1eU	DIN EN ISO 179/1eU		
	23°C			kJ/m ²	N
	-40°C			kJ/m ²	> 100
CHARPY notched impact strength		ISO 179/1eA	DIN EN ISO 179/1eA		
	23°C			kJ/m ²	18 C ¹⁾
	-40°C			kJ/m ²	15 C ¹⁾
Temperature of deflection under load		ISO 75-1	DIN EN ISO 75-1		
		ISO 75-2	DIN EN ISO 75-2		
Method A	1,8 MPa			°C	124
Method B	0,45 MPa			°C	130
Melting range		ISO 11357			
DSC	2 nd heating			°C	approx. 265
Particle Size Distribution		Malvern Mastersizer			
d ₁₀				µm	approx. 20
d ₅₀				µm	approx. 50
d ₉₀				µm	approx. 80

Pigmentation may affect values.

¹⁾ C = Complete break, incl. hinge break H
N = No break