

## Product Information

### Preliminary Product Information

#### VESTAMID® HT*plus* M1000

##### Unmodified polyphthalamide for creating compounds for injection molding

VESTAMID HT*plus* M1000 is a neat resin for polyphthalamide (PPA) based compounds for injection molding.

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

VESTAMID HT*plus* M1000 is supplied as cylindrical pellets in polyethylene packaging.

Drying at 120°C for at least 4 hours before processing is recommended.

For information about processing of VESTAMID HT*plus* M1000, please follow the general recommendations for PPA in our information „Handling and Processing of VESTAMID HT*plus*.“

**For further information, please contact our experts in the department Market Development of the High Performance Polymers Business Line.**

Property	Test method		Unit	VESTAMID HTplus M1000	
	international	national			
Density	23°C	ISO 1183	DIN EN ISO 1183	g/cm <sup>3</sup>	1.20
Tensile test		ISO 527-1	DIN EN ISO 527-1		
Stress at break		ISO 527-2	DIN EN ISO 527-2	MPa	90
Strain at break				%	3
Tensile modulus		ISO 527-1	DIN EN ISO 527-1	MPa	3500
		ISO 527-2	DIN EN ISO 527-2		
CHARPY impact strength		ISO 179/1eU	DIN EN ISO 179/1eU		
	23°C			kJ/m <sup>2</sup>	50 C <sup>1)</sup>
	-40°C			kJ/m <sup>2</sup>	40 C <sup>1)</sup>
CHARPY notched impact strength		ISO 179/1eA	DIN EN ISO 179/1eA		
	23°C			kJ/m <sup>2</sup>	7 C <sup>1)</sup>
	-40°C			kJ/m <sup>2</sup>	4 C <sup>1)</sup>
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	126
Method B	0.45 MPa			°C	223
Vicat softening temperature		ISO 306	DIN EN ISO 306		
Method A	10 N			°C	302
Method B	50 N			°C	245
Melting range		ISO 11357			
DSC	2 <sup>nd</sup> heating			°C	300-315

Pigmentation may affect values.

<sup>1)</sup> C = Complete break, incl. hinge break H

The results shown have been generated from a low number of production lots. Therefore, they are preliminary and not yet the result of a statistical evaluation. Therefore they must not be used to establish specifications.

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