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 international	national	Unit	VESTAMID HT*plus* M1000
Density	23°C	ISO 1183	DIN EN ISO 1183	g/cm³	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 ISO 527-2	DIN EN ISO 527-1 DIN EN ISO 527-2	MPa	3500
CHARPY impact strength		ISO 179/1eU	DIN EN ISO 179/1eU		
	23°C			kJ/m²	50 C[1)]
	-40°C			kJ/m²	40 C[1)]
CHARPY notched impact strength		ISO 179/1eA	DIN EN ISO 179/1eA		
	23°C			kJ/m²	7 C[1)]
	-40°C			kJ/m²	4 C[1)]
Temperature of deflection under load		ISO 75-1 ISO 75-2	DIN EN ISO 75-1 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	2nd heating			°C	300-315

Pigmentation may affect values.

[1)] 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.

® = registered trademark

Evonik Degussa GmbH BL High Performance Polymers 45764 Marl Germany
Phone +49 2365 49-9878 Fax +49 02365 49-5992
www.degussa-hpp.com

EVONIK INDUSTRIES