

## Product Information

### Preliminary Product Information

#### VESTAMID® HT*plus* M1033

##### Glass-fiber reinforced polyphthalamide compound for injection molding

VESTAMID HT*plus* M1033 is a glass-fiber reinforced (30%), heat-stabilized polyphthalamide compound (PPA) for injection molding.

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

VESTAMID HT*plus* M1033 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* M1033, 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 M1033	
	international	national			
Density	23°C	ISO 1183	DIN EN ISO 1183	g/cm <sup>3</sup>	1.44
Tensile test		ISO 527-1	DIN EN ISO 527-1		
Stress at break		ISO 527-2	DIN EN ISO 527-2	MPa	180
Strain at break				%	2
Tensile modulus		ISO 527-1	DIN EN ISO 527-1	MPa	11200
		ISO 527-2	DIN EN ISO 527-2		
Flexural test		ISO 178	DIN EN ISO 178		
Flexural strength				MPa	260
Flexural modulus		ISO 178	DIN EN ISO 178	MPa	10000
CHARPY impact strength		ISO 179/1eU	DIN EN ISO 179/1eU		
	23°C			kJ/m <sup>2</sup>	45 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>	7 C <sup>1)</sup>
Vicat softening temperature		ISO 306	DIN EN ISO 306		
Method A	10 N			°C	313
Method B	50 N			°C	284
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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