

Product Information

VESTAMID® HT*plus* R1033

Glass-fiber reinforced polyphthalamide compound especially suitable for plastic and rubber composites

VESTAMID HT*plus* R1033 is a glass-fiber reinforced (30%), heat-stabilized polyphthalamide compound (PPA) especially suitable for the production of rubber and plastic composites. This process is patented by Evonik Degussa GmbH.

Parts of VESTAMID HT*plus* R1033 can be directly bonded to rubber, e. g., HNBR or FPM, without using any adhesives or adhesion promoters.

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

VESTAMID HT*plus* R1033 is supplied as cylindrical pellets in polyethylene packaging.

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

Property	Test method		Unit	VESTAMID HTplus R1033	
	international	national			
Density	23°C	ISO 1183	DIN EN ISO 1183	g/cm ³	1.44
Tensile test		ISO 527-1	DIN EN ISO 527-1		
Stress at break		ISO 527-2	DIN EN ISO 527-2	MPa	170
Strain at break				%	2
Tensile modulus		ISO 527-1	DIN EN ISO 527-1	MPa	11000
		ISO 527-2	DIN EN ISO 527-2		
CHARPY impact strength		ISO 179/1eU	DIN EN ISO 179/1eU		
	23°C			kJ/m ²	38 C ¹⁾
	-40°C			kJ/m ²	34 C ¹⁾
CHARPY notched impact strength		ISO 179/1eA	DIN EN ISO 179/1eA		
	23°C			kJ/m ²	7 C ¹⁾
	-40°C			kJ/m ²	6 C ¹⁾
Vicat softening temperature		ISO 306	DIN EN ISO 306		
Method A	10 N			°C	305
Method B	50 N			°C	275
Melting range		ISO 11357			
DSC	2 nd 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.