

# VESTAMID® HTplus R1033

Polyphthalamide

Evonik Industries AG

## Message:

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

VESTAMID HTplus 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 HTplus 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 HTplus R1033 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 HTplus R1033, please contact our experts in the department Applications Technology of the High Performance Polymers Business Line.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Heat Stabilizer		
Features	Bondability		
	Heat Stabilized		
	High Heat Resistance		
Uses	Compounding		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	1.44	g/cm <sup>3</sup>	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	11000	MPa	ISO 527-2
Tensile Stress (Break)	170	MPa	ISO 527-2
Tensile Strain (Break)	2.0	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-40°C, Complete Break	6.0	kJ/m <sup>2</sup>	
23°C, Complete Break	7.0	kJ/m <sup>2</sup>	
Charpy Unnotched Impact Strength			ISO 179/1eU
-40°C, Complete Break	34	kJ/m <sup>2</sup>	
23°C, Complete Break	38	kJ/m <sup>2</sup>	
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature			
--	305	°C	ISO 306/A
--	275	°C	ISO 306/B
Melting Temperature	300 to 315	°C	ISO 11357-3

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