

# VESTAMID® HTplus R1133

Polyphthalamide

Evonik Industries AG

## Message:

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

VESTAMID HTplus R1133 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 R1133 can be directly bonded to rubber, e. g., HNBR or FPM, without using any adhesives or adhesion promoters.

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

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Heat Stabilizer		
Features	Heat Stabilized		
	High Heat Resistance		
Uses	High Temperature Applications		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.40	g/cm <sup>3</sup>	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	11000	MPa	ISO 527-2/1
Tensile Stress (Break)	145	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	7.0	kJ/m <sup>2</sup>	
23°C, Complete Break	6.0	kJ/m <sup>2</sup>	
Charpy Unnotched Impact Strength			ISO 179/1eU
-40°C, Complete Break	21	kJ/m <sup>2</sup>	
23°C, Complete Break	28	kJ/m <sup>2</sup>	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	296	°C	ISO 75-2/B
1.8 MPa, Unannealed	244	°C	ISO 75-2/A
Melting Temperature <sup>1</sup>	300 to 315	°C	ISO 11357
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	> 4.0	hr	
NOTE			
1.	2nd Heating		

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