

# VESTAMID® HTplus M1533

Polyphthalamide  
Evonik Industries AG

Message:

VESTAMID HTplus M1533 is a glass-fiber reinforced (30%) polyphthalamide compound (PPA) containing an internal lubricant. The resin is especially used in tribological applications. The modification reduces the sliding frictions. Therefore the material is suitable for improved wear applications, and in addition to manufacture parts subjected to high temperature.

VESTAMID HTplus M1533 is supplied as cylindrical pellets in polyethylene packaging.

Drying at 110°C for at least 3 hours before processing is recommended.

The optimum melt temperature is 310°C. We recommend a mold temperature of 130°C.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Lubricant		
Features	High Heat Resistance		
	Low Friction		
	Lubricated		
Uses	High Temperature Applications		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.53	g/cm³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	11000	MPa	ISO 527-2
Tensile Stress (Break)	175	MPa	ISO 527-2
Tensile Strain (Break)	2.0	%	ISO 527-2
Coefficient of Friction			ASTM D1894
Dynamic	0.28		
Static	0.33		
Wear Factor <sup>1</sup>	25	10 <sup>-8</sup> mm³/N·m	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C, Complete Break)	7.5	kJ/m²	ISO 180/1A
Unnotched Izod Impact Strength (23°C)	45	kJ/m²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	300 to 315	°C	ISO 11357-3
Heat Distortion - Method A	255	°C	ASTM D648
Injection	Nominal Value	Unit	
Drying Temperature	110	°C	
Drying Time	3.0	hr	
NOTE			

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#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

