

VESTAMID® HTplus M1033

Polyphthalamide

Evonik Industries AG

Message:

Glass-fiber reinforced polyphthalamide compound for injection molding

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

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

VESTAMID HTplus 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 HTplus M1033, please follow the general recommendations for PPA in our information "Handling and Processing of VESTAMID HTplus."

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		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.44	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	11200	MPa	ISO 527-2
Tensile Stress (Break)	180	MPa	ISO 527-2
Tensile Strain (Break)	2.0	%	ISO 527-2
Flexural Modulus	10000	MPa	ISO 178
Flexural Stress	260	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-40°C, Complete Break	7.0	kJ/m ²	
23°C, Complete Break	7.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-40°C, Complete Break	40	kJ/m ²	
23°C, Complete Break	45	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature			
--	313	°C	ISO 306/A
--	284	°C	ISO 306/B
Melting Temperature	300 to 315	°C	ISO 11357-3

Injection	Nominal Value	Unit
Drying Temperature	120	°C
Drying Time	4.0	hr

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