VESTAMID® HTplus M1933

Polyphthalamide

Evonik Industries AG

Message:

VESTAMID HTplus M1933 is a glass-fiber reinforced (30%), Heat-stabilized polyphthalamide compound (PPA) containing a halogen-free flame retardant. It is free of red phosphorus.

Due to the halogen-free flame retardant VESTAMID HTplus M1933 is especially suitable for interior parts in aircrafts, railway vehicles and ships. This compound can be used for injection molding and is especially suitable for manufacturing parts subjected to high temperature. Parts made of VESTAMID HTplusM1933 can be used in reflow soldering process.

VESTAMID HTplus M1933 is supplied as spherical pellets in polyethylene packaging.

We recommend a processing temperature between 325°C and 335°C during the injection molding process. The mold temperature should be within a range of 140°C to 180°C, preferably 160°C.

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

For information about processing of VESTAMID HTplus M1933, please follow the general recommendations for PPA in our

information "Handling and Processing of VESTAMID HTplus."

General Information			
UL YellowCard	E100211-100875880		
Additive	Flame Retardant		
	Heat Stabilizer		
Features	Halogen Free		
	Heat Stabilized		
	High Heat Resistance		
Uses	High Temperature Applications		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.44	g/cm³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow : 80°C, 2.00 mm	0.90	%	
Flow : 80°C, 2.00 mm	0.20	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	11300	MPa	ISO 527-2
Tensile Stress (Break)	105	MPa	ISO 527-2
Tensile Strain (Break)	1.7	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-40°C, Complete Break	3.0	kJ/m²	
23°C, Complete Break	4.0	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-40°C, Complete Break	26	kJ/m²	
23°C, Complete Break	28	kJ/m²	

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	301	°C	ISO 75-2/B
1.8 MPa, Unannealed	267	°C	ISO 75-2/A
Melting Temperature ¹	300 to 315	°C	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index			IEC 60112
2	575	V	
Solution A	< 600	V	
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.400 mm	V-0		
0.800 mm	V-0		
Glow Wire Flammability Index (2.00 mm)	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (2.00 mm,			
Passes)	800	°C	IEC 60695-2-13
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	4.0	hr	
NOTE			
1.	2nd Heating		
2.	100 drops value		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

