Hepla® H7000 H

Material Description:

Hepla® H7000 H is a Polyamide 12 (PA 12) material filled with unspecified nano and Heat Stabilizer.Characteristics include:Heat Stabilized.It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for extrusion.

General		
Material Status	• Commercial: Active	
Availability	• Asia Pacific	• North America
	• Europe	• Latin America
	• Middle East	• Africa
Filler / Reinforcement	• Nano	
Additive	• Heat Stabilizer	
Features	• Good Impact Resistance	• Heat Stabilized
	• Chemical Resistant	• Low Water Absorption
	• Good Dimensional Stability	• Wear Resistant
Uses	• Wire & Cable Applications	• Tubing
	• Electrical/Electronic Applications	
Appearance	• Natural Color	
Forms	• Granules	
RoHS Compliance	• RoHS Compliant	
Processing Method	• Extrusion	

Physical Properties	Typical Value	Unit	Test Method
Density	1.03	g/cm^3	ISO 1183
Water Absorption (Equilibrium, 23℃, 50% RH)	0.7	%	ISO 62
Water Absorption (Saturation, 23℃, 50% RH)	1.4	%	ISO 62
Mold Shrinkage			ISO 294-4
Flow	0.9	%	
Across Flow	1	%	

Hardness	Typical Value	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	75		ISO 868
Ball Indentation Hardness	80		ISO 2039-1

Mechanical Properties	Typical Value	Unit	Test Method
Tensile Modulus	1783	MPa	ISO 527-2/1
Tensile Stress, yield	45.8	MPa	ISO 527-2/1
Tensile Stress, break	51	MPa	ISO 527-2/1
Tensile Strain, yield	6.9	%	ISO 527-2/1
Nominal Tensile Strain at Break	>50	%	ISO 527-2/1

Impact Properties	Typical Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30℃	5.9	kJ/m^2	
23℃	7.8	kJ/m^2	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30℃	No Break		
23℃	No Break		

Flame Characteristics	Typical Value	Unit	Test Method
Flammability Classification(0.8 mm)	HB		IEC 60695-11-10, -20

Electrical Properties	Typical Value	Unit	Test Method
Electric Strength	50.8	kV/mm	IEC 60243-1
Volume Resistivity	1.00E+13	Ohm•cm	IEC 60093
Surface Resistivity	1.00E+12	Ohms	IEC 60093
Comparative Tracking Index	600	V	IEC 60112

Thermal Properties	Typical Value	Unit	Test Method
Heat Deflection Temperature Under Load			
/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm Unannealed	125	℃	ISO 75/Bf
/Af, 1.8 MPa Flatw 80*10*4 sp=64mm Unannealed	75	℃	ISO 75/Af
Continuous Use Temperature Long Term	90 to 110	℃	ISO 2578
Continuous Use Temperature Short Term	150	℃	NFD Method
Melting Temperature, 10℃/min	178	℃	ISO 11357-3
CLTE			ISO 11359-2
Flow	8.00E-05	1/℃	
Xflow	1.30E-04	1/℃	

CAUTION/警告!

Before using, read the Molding Guide, Material Safety Data Sheets, and Bulletins available from NFD Advanced Composites Sales offices and Distributors supplied to your company. Caution! During drying, purging and molding, small amounts of hazardous gases and/or particulate matter may be released. These may irritate eyes, nose and throat. Use adequate local exhaust ventilation during thermal processing. To prevent resin decomposition, do not contaminate the resin or exceed the recommended melt temperature or hold-up time. Avoid inhalation or skin and eyes contact. Sweep up and dispose of spilled resin to eliminate slipping hazard.
在使用之前，请阅读NFD公司销售办事处和经销商提供给贵公司的材料成型指南 、材料安全数据表和公告。警告！在干燥、吹扫和成型过程中，少量有害气体或颗粒物质可能会在被释放，这些可能会刺激眼睛，鼻子和喉咙。热处理过程中请注意做好排气通风工作。为防止树脂分解，请勿污染树脂或超过我们为您推荐的熔融温度或时间。请避免吸入或与皮肤、眼睛等接触。清扫和处理溢出的树脂，以消除滑到的危险。

LEGAL NOTICES/法律声明

The figures indicated here are approximate values. They may be affected by different factors, and the user is not released therefore from the obligation of performing checks and trials of his own. The values indicated here have been compiled on the basis of current tests and findings. Any legally binding guarantee of certain properties, or any suitability for a specific application can not be inferred from the present data. For detailed production regulatory information, contact customer service.
上列数据只作参考用途，它们可能会受不同因素的影响，使用者有责任通过实验自行确定材料特性 。上述资料根据现有测试得出，对物料特性是否适合某特殊用途及特性不能给予保证，数据也没有任何法律约束力 。更多有关详细的产品监管信息，请联系客户服务

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