

Heppla® H7000

Material Description:

Heppla® H7000 is a Polyamide 12 (Nylon 12) product filled with Nucleating Agent and Mold Release. Characteristics include: Nucleated. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.

General

Material Status	• Commercial: Active
Availability	<ul style="list-style-type: none"> • Asia Pacific • Europe • Middle East • North America • Latin America • Africa
Additive	<ul style="list-style-type: none"> • Nucleating Agent • Nucleated • Mold Release • Medium Viscosity
Features	<ul style="list-style-type: none"> • Lubricating • Chemical Resistant • Good Dimensional Stability • Shock Resistant • Low Water Absorption • Wear Resistant
Uses	<ul style="list-style-type: none"> • Connectors • Electrical/Electronic Applications • Consumer Applications • Pneumatic Applications • Household Goods • Power/Other Tools • Hydraulic Applications • Sporting Goods • Automotive Applications • Industrial Applications • Engineering Parts
Forms	• Granules
RoHS Compliance	• RoHS Compliant
Processing Method	• Injection Molding

Physical Properties	Typical Value	Unit	Test Method
Density	1.01	g/cm ³	ISO 1183
Water Absorption (Equilibrium, 23°C, 50% RH)	0.7	%	ISO 62
Water Absorption (Saturation, 23°C, 50% RH)	1.5	%	ISO 62
Mold Shrinkage			ISO 294-4
Flow	0.8	%	
Across Flow	0.8	%	

Hardness	Typical Value	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	70		ISO 868

Mechanical Properties	Typical Value	Unit	Test Method
Tensile Modulus	1503	MPa	ISO 527-2/1
Tensile Stress, yield	46	MPa	ISO 527-2/1
Tensile Stress, break	61.4	MPa	ISO 527-2/1
Tensile Strain, yield	9.8	%	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°C	5.9	kJ/m ²	
23°C	5.1	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	No Break		
23°C	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	32.4	kV/mm	IEC 60243-1
Volume Resistivity	1.00E+13	Ohms•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	115	°C	ISO 75/Bf
/Af, 1.8 MPa Flatw 80*10*4 sp=64mm Unannealed	45	°C	ISO 75/Af
Continuous Use Temperature Long Term	90 to 110	°C	ISO 2578
Continuous Use Temperature Short Term	150	°C	NFD Method
Melting Temperature, 10°C/min	178	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	1.20E-04	1/°C	
Xflow	1.40E-04	1/°C	

NFD ADVANCED COMPOSITES

Hepla® H7000

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热熔温度或时间。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.

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