

Hepla® H7050GB H

Material Description:

Hepla® H7050GB H is a Polyamide 12 (PA12) material filled with 50% glass bead and Heat Stabilizer. Characteristics include: Heat Stabilized. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.

General		
Material Status	• Commercial: Active	
Availability	• Asia Pacific	• North America
	• Europe	• Latin America
	• Middle East	• Africa
Filler/Reinforcement	• Glass Bead, 50% Filler by Weight	
Additive	• Heat Stabilizer	
Features	• Heat Stabilized	• Chemical Resistant
	• Low Water Absorption	• Good Dimensional Stability
	• Wear Resistant	
Uses	• Connectors	• Appliance Components
	• Electrical/Electronic Applications	• Automotive Applications
	• Consumer Applications	• Medical Instruments
	• Household Goods	• Industrial Applications
	• Power/Other Tools	
Multi-Point Data	• Isothermal Stress vs. Strain (ISO 11403-1)	
	• Shear Modulus vs. Temperature (ISO 11403-1)	
	• Viscosity vs. Shear Rate (ISO 11403-2)	
	• Secant Modulus vs. Strain (ISO 11403-1)	
Forms	• Granules	
RoHS Compliance	• RoHS Compliant	
Processing Method	• Injection Molding	

Physical Properties	Typical Value	Unit	Test Method
Density	1.44	g/cm ³	ISO 1183
Water Absorption (Equilibrium, 23°C, 50% RH)	0.4	%	ISO 62
Water Absorption (Saturation, 23°C)	0.8	%	ISO 62
Mold Shrinkage			ISO 294-4
Flow	0.8	%	
Across Flow	0.9	%	

Hardness	Typical Value	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	75		ISO 868

Mechanical Properties	Typical Value	Unit	Test Method
Tensile Modulus	2523	MPa	ISO 527-2/1
Tensile Stress, yield	49	MPa	ISO 527-2/1
Tensile Stress, break	49	MPa	ISO 527-2/1
Tensile Strain, yield	5.5	%	ISO 527-2/1
Nominal Tensile Strain at Break	21	%	ISO 527-2/1

Impact Properties	Typical Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eU
-30°C	4.2	kJ/m ²	
23°C	5.3	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU

-30℃
23℃

6.6 kJ/m²
11.1 kJ/m²

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	35.2	kV/mm	IEC 60243-1
Volume Resistivity	1E+13	Ohm•cm	IEC 60093
Surface Resistivity	1E+12	Ohms	IEC 60093
Comparative Tracking Index	600	V	IEC 60112

Thermal Properties	Typical Value	Unit	Test Method
Heat Deflection Temperature Under Load /Cf, 8 MPa Flatw 80*10*4 sp=64mm Unannealed	40	℃	ISO 75/Cf
/Af, 1.8 MPa Flatw 80*10*4 sp=64mm Unannealed	65	℃	ISO 75/Af
Continuous Use Temperature Long Term	90 to 120	℃	ISO 2578
Continuous Use Temperature Short Term	150	℃	NFD Method
Melting Temperature, 10℃/min	178	℃	ISO 11357-3
CLTE			ISO 11359-2
Flow	1.20E-04	1/℃	
Xflow	1.20E-04	1/℃	

NFD ADVANCED COMPOSITES

Hepla® H7050GB H

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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感谢您访问新孚达 (NFD)! 我们秉承“New Formula Designer”的发展理念, 将科研创新与生产应用紧密相连, 无论您是设计师、工程师或者是采购专家, 我们都可以帮助您拓展业务并获得新的灵感。我们坚持诚信、合作、效率、创新的核心价值观, 始终把客户放在第一位。相比于我们的竞争对手, 我们专注于为您提供更先进的技术配方、更优质的产品, 更好的解决方案及更周到的售后服务, 我们懂市场、我们懂产品、我们更懂你们。

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