

Heppla® H7225GF

Material Description:

Heppla® H7225GF is a Polyamide 66 (Nylon 66) product filled with 25% glass fiber. suitable for mouldings with high strength and toughness also at minus temperatures. Used in the automotive, engineering and electrical industry. It achieves higher rates of tensile strength and modulus of elasticity also in conditioning state when compared with PA 6 GF. Application: hobby tools, covers of electrotools, electromotors, cooling screws of blowers, gear wheels, carrying parts in the automotive industry like

General	
Material Status	<ul style="list-style-type: none"> Commercial: Active
Availability	<ul style="list-style-type: none"> Asia Pacific Europe Middle East
	<ul style="list-style-type: none"> North America Latin America Africa
Filler/Reinforcement	<ul style="list-style-type: none"> Glass Fiber, 25% Filler by Weight
Features	<ul style="list-style-type: none"> Chemically Coupled High Strength
	<ul style="list-style-type: none"> Low Temperature Toughness Ultra High Toughness
Uses	<ul style="list-style-type: none"> Automotive Applications Electrical/Electronic Applications
	<ul style="list-style-type: none"> Engineering Parts Gears
Appearance	<ul style="list-style-type: none"> Colors Available
Processing Method	<ul style="list-style-type: none"> Injection Molding

Physical Properties	Typical Value	Unit	Test Method
Density	1.32	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) 275°C/0.325 kg	3	g/10 min	ISO 1133
Molding Shrinkage			STM 64 0808
Across Flow	1.2	%	
Flow	0.78	%	
Water Content	0.15	%	ISO 960

Mechanical Properties	Typical Value	Unit	Test Method
Tensile Modulus	16000	MPa	ISO 527-2
Tensile Stress (Yield)	175	MPa	ISO 527-2
Tensile Strain (Yield)	3	%	ISO 527-2
Flexural Modulus	15000	MPa	ISO 178
Flexural Stress	255	MPa	ISO 178

Impact Properties	Typical Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-20°C	9	kJ/m ²	
23°C	10	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-20°C	50	kJ/m ²	
23°C	55	kJ/m ²	

Flammability	Typical Value	Unit	Test Method
Flame Rating	HB		UL 94
Glow Wire Ignition Temperature	650	°C	IEC 60695-2-13

Electrical Properties	Typical Value	Unit	Test Method
Surface Resistivity	1E+14	ohms	IEC 60093
Volume Resistivity	1E+17	ohms·cm	IEC 60093
Electric Strength	40	kV/mm	IEC 60243-1
Comparative Tracking Index	400	V	IEC 60112

Thermal Properties	Typical Value	Unit	Test Method
Heat Deflection Temperature 0.45 MPa, Unannealed	250	°C	ISO 75-2/B
Vicat Softening Temperature	250	°C	ISO 306/B
Melting Temperature (DSC)	260	°C	ISO 3146

Injection	Typical Value	Unit
Drying Temperature	80	°C
Drying Time	4	hr
Processing (Melt) Temp	280 to 300	°C
Mold Temperature	60 to 90	°C
Injection Pressure	70.0 to 120	MPa

NFD ADVANCED COMPOSITES

Hepla® H7225GF

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, 以消除滑倒的危险。

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.

上列数据仅作参考用途, 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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