

Hepla® H7210GF FR UV

Material Description:

Hepla® H7210GF FR is a Polyamide 66 (Nylon 66) product filled with 10% glass fiber. Characteristics include: Flame Retardant, Hot Water Moldability, Low Warpage, UV Stabilized.

General

Material Status	• Commercial: Active
Availability	<ul style="list-style-type: none"> • Asia Pacific • Europe • Middle East • North America • Latin America • Africa
Filler/Reinforcement	• Glass Fiber, 10% Filler by Weight
Features	<ul style="list-style-type: none"> • Creep Resistant • Electrically Insulating • Fatigue Resistant • High Impact Resistance • High Temperature Stiffness • UV Stabilized • Hot Water Moldability • Low CLTE • Weather Resistant • Low Warpage • Flame Retardant
Applications	<ul style="list-style-type: none"> • Aircraft Applications • Automotive Applications • Consumer Applications • Industrial Applications
RoHS Compliance	• Contact Manufacturer
Processing Method	• Injection Molding

Physical Properties	Typical Value	Unit	Test Method
Specific Gravity	1.48	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.2mm)	0.4 to 0.6	%	ASTM D955
Water Absorption (24 hrs, 23°C)	0.8	%	ASTM D570
Moisture Content	0.2	%	

Hardness	Typical Value	Unit	Test Method
Hardness, Rockwell, R	115		ASTM D785

Mechanical Properties	Typical Value	Unit	Test Method
Tensile Modulus	5623	MPa	ASTM D638
Tensile Strength	90.2	MPa	ASTM D638
Tensile Elongation	3 to 4	%	ASTM D638
Flexural Modulus	4795	MPa	ASTM D790
Flexural Strength	137.5	MPa	ASTM D790

Impact Properties	Typical Value	Unit	Test Method
Notched Izod Impact (3.2mm)	52.8	J/m	ASTM D256
Unnotched Izod Impact (3.2mm)	427	J/m	ASTM D4812

Electrical Properties	Typical Value	Unit	Test Method
Dielectric Strength (S/T, in oil)	19.8	kV/mm	ASTM D149
Dielectric Constant (1 MHz, Dry)	4		ASTM D150
Dissipation Factor (1 MHz, Dry)	0.017		ASTM D150
Volume Resistivity	>1E15	Ohm cm	ASTM D257

Flammability	Typical Value	Unit	Test Method
Ignition Resistance ¹			
Flammability (0.8mm)	V-0		UL94
Flammability (1.5mm)	V-0		UL94
Limiting Oxygen Index	34	%	ASTM D2863

Thermal Properties	Typical Value	Unit	Test Method
Deflection Temperature Under Load 1.8MPa	204	°C	ASTM D648
Deflection Temperature Under Load 0.45MPa	216	°C	ASTM D648

Processing Information	Typical Value	Unit
Injection Pressure	70 to 125	MPa
Melt Temperature	275 to 301	°C
Mold Temperature	65 to 108	°C
Drying Temperature	79	°C
Drying Time	4	hr
Dew Point	-18	°C

Notes: Desiccant Type Dryer Required.

¹This rating is not intended to reflect hazards of this or any other material under actual fire conditions.

NFD ADVANCED COMPOSITES

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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.

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