

Heppla® H7120GF FR

Material Description:

Heppla® H7120GF FR is a Polyamide 6 (Nylon 6) product filled with 20% glass fiber. Characteristics include: Flame Retardant, Wear Resistant.

General	
Material Status	• Commercial: Active
Availability	• Asia Pacific
	• Europe
	• Middle East
Filler/Reinforcement	• Glass Fiber, 20% Filler by Weight
	• Flame Retardant
Features	• Chemical Resistant
	• Wear Resistant
	• Self-Lubricating
RoHS Compliance	• RoHS Compliant
Processing Method	• Injection Molding

Physical Properties	Typical Value	Unit	Test Method
Density/Specific Gravity	1.58	g/cm ³	ASTM D792
Moisture Content	0.2	%	
Molding Shrinkage - Flow (3.20 mm)	0.3 to 0.5	%	ASTM D955
Water Absorption (23°C, 24 hr)	1.4	%	ASTM D570

Hardness	Typical Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785

Mechanical Properties	Typical Value	Unit	Test Method
Tensile Modulus	8759	MPa	ASTM D638
Tensile Strength	111.7	MPa	ASTM D638
Tensile Elongation(Yield)	2 to 2.9	%	ASTM D638
Flexural Modulus	7687	MPa	ASTM D790
Flexural Strength	187.2	MPa	ASTM D790

Impact Properties	Typical Value	Unit	Test Method
Notched Izod Impact(3.2mm)	79.5	J/m	ASTM D256
Unnotched Izod Impact(3.2mm)	581	J/m	ASTM D4812

Flammability	Typical Value	Unit	Test Method
Flame Rating			UL 94
1.5mm	V-0		
3mm	5VA		

Electrical Properties	Typical Value	Unit	Test Method
Volume Resistivity	>1.0E+14	Ohms·cm	ASTM D257
Dielectric Constant (1 MHz)	4		ASTM D150
Dissipation Factor (1 MHz)	0.015		ASTM D150
Dielectric Strength ¹ (in Oil)	19	kV/mm	ASTM D149

Thermal Properties	Typical Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	204	°C	
1.8 MPa, Unannealed	188	°C	

Processing Information	Typical Value	Unit
Injection Pressure	68.9 to 103	MPa
Processing (Melt) Temp	244 to 280	°C
Mold Temperature	54 to 93	°C
Drying Temperature	82	°C
Drying Time	2	hr
Dew Point	-18	°C

NOTES:

¹ Method A (Short-Time)

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处理温度或时间。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。

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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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CONTACT:

CHINA/JIANG SU

江苏新孚达复合材料有限公司

NFD Composite Material (Jiangsu) Co., Ltd

Email:yanghui@nfdpla.com

Internet:www.nfdpla.com

