

## Hepla® H9330GF NH

### Material Description:

Hepla® H9330GF NH is High Performance Polyamide(PPA) material filled with 30% glass fiber. Important attributes of Hepla® H9330GF NH are: Flame Retardant, Non-Halogenated.

### General

Material Status	• Commercial: Active	
Availability	• Asia Pacific	• North America
	• Europe	• Latin America
	• Middle East	• Africa
Additive	• Glass Fiber, 30% Filler by Weight	
	• Flame Retardant	
Features	• Flame Retardant	• Halogen Free
RoHS Compliance	• Contact Manufacturer	
Processing Method	• Injection Molding	
Multi-Point Data	• Isothermal Stress vs. Strain (ISO 11403-1)	
	• Secant Modulus vs. Strain (ISO 11403-1)	
Part Marking Code (ISO 11469)	• PA6T/66-GF30FR(40)	
Part Marking Code (SAE J1344)	• >PPA-GF30FR<	
Resin ID (ISO 1043)	• PA6T/66-GF30FR(40)	

Physical Properties	Typical Value	Unit	Test Method
Density	1.44	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	1	%	
Flow	0.3	%	

Mechanical Properties	Typical Value	Unit	Test Method
Tensile Modulus	10869	MPa	ISO 527-2
Tensile Stress (Break)	155	MPa	ISO 527-2
Tensile Strain (Break)	2.3	%	ISO 527-2
Flexural Modulus	8965	MPa	ISO 178
Flexural Stress	233	MPa	ISO 178
Poisson's Ratio	0.34		ISO 527

Impact Properties	Typical Value	Unit	Test Method
Charpy Notched Impact Strength(23℃)	8.3	KJ/m <sup>2</sup>	ISO 179/1eA

Thermal Properties	Typical Value	Unit	Test Method
Heat Deflection Temperature			
1.8 MPa, Unannealed	283	℃	ISO 75-2/A
Melting Temperature <sup>1</sup>	310	℃	ISO 11357-3
RTI Elec			UL 746
0.40 mm	140	℃	
0.75 mm	140	℃	
1.5 mm	140	℃	
3.0 mm	140	℃	

Electrical Properties	Typical Value	Unit	Test Method
Volume Resistivity	> 1.0E+15	ohms • cm	IEC 62631-3-1
Electric Strength	33	kV/mm	IEC 60243-1
Relative Permittivity			IEC 62631-2-1
1 MHz	4		
100 Hz	4.3		
Dissipation Factor			IEC 62631-2-1
100 Hz	7.00E-03		
1 MHz	0.013		
Comparative Tracking Index	600	V	IEC 60112

Flammability	Typical Value	Unit	Test Method
Flame Rating			UL 94, IEC 60695-11-10, -20
0.75 mm	V-0		
1.5 mm	V-0		
Glow Wire Ignition Temperature			IEC 60695-2-13
0.40 mm	700	°C	
0.75 mm	725	°C	
3.0 mm	775	°C	
Oxygen Index	37	%	ISO 4589-2
FMVSS Flammability	DNI		FMVSS 302

Additional Information	Typical Value	Unit	Test Method
Emission of Organic Compounds	10	µgC/g	VDA 277
Odor	3.5		VDA 270

Processing Information	Typical Value	Unit
Drying Temperature	100	°C
Drying Time - Desiccant Dryer	6.0 to 8.0	hr
Suggested Max Moisture	0.1	%
Processing (Melt) Temp	320 to 325	°C
Mold Temperature	90 to 130	°C
Drying Recommended	Yes	

NOTES:

<sup>1</sup> First Heat

**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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