

# Hepla® H9360GF H

## Material Description:

Hepla® H9360GF H is a Polyamide 66 + PA 6I/X (Nylon 66+Nylon 6I/X) material filled with 60% glass fiber. Important attributes of Hepla® H9360GF H are: Flame Rated, RoHS Compliant, Heat Stabilizer. Typical applications include: Automotive, Appliances, Consumer Goods, Electrical/Electronic Applications, Engineering/Industrial Parts.

General	
Material Status	• Commercial: Active
Availability	• Asia Pacific
	• Europe
	• Middle East
Additive	• Glass Fiber, 60% Filler by Weight
	• Heat Stabilizer
Features	• Aromatic
	• Heat Stabilized
Uses	• Appliance Components
	• Automotive Exterior Parts
	• Consumer Applications
	• Engineering Parts
	• Hydraulic Applications
	• Pneumatic Applications
	• Sporting Goods
	• Automotive Interior Parts
• Automotive Applications	
• Electrical/Electronic Applications	
• Household Goods	
• Industrial Applications	
• Power/Other Tools	
RoHS Compliance	• RoHS Compliant
Forms	• Granules
Processing Method	• Extrusion
	• Injection Molding
Multi-Point Data	• Isochronous Stress vs. Strain (ISO 11403-1)
	• Isothermal Stress vs. Strain (ISO 11403-1)
	• Secant Modulus vs. Strain (ISO 11403-1)
	• Shear Modulus vs. Temperature (ISO 11403-1)
	• Specific Volume vs Temperature (ISO 11403-2)
	• Viscosity vs. Shear Rate (ISO 11403-2)

Physical Properties	Typical Value	Unit	Test Method
Density	1.69	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.3	%	
Flow	0.1	%	
Water Absorption			ISO 62
Saturation, 23°C	3.5	%	
Equilibrium, 23°C, 50% RH	1.2	%	

Hardness	Typical Value	Unit	Test Method
Ball Indentation Hardness	315	MPa	ISO 2039-1

Mechanical Properties	Typical Value	Unit	Test Method
Tensile Modulus	23055	MPa	ISO 527-2
Tensile Stress (Break)	270	MPa	ISO 527-2
Tensile Strain (Break)	2.1	%	ISO 527-2

Impact Properties	Typical Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	14	kJ/m <sup>2</sup>	
23°C	16	kJ/m <sup>2</sup>	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	84	kJ/m <sup>2</sup>	
23°C	95	kJ/m <sup>2</sup>	

Thermal Properties	Typical Value	Unit	Test Method
Heat Deflection Temperature			
1.8 MPa, Unannealed	235	°C	ISO 75-2/A
8.0 MPa, Unannealed	175	°C	ISO 75-2/C
Continuous Use Temperature			
Long Term	100 to 120	°C	ISO 2578
Short Term	220	°C	Internal Method
Melting Temperature <sup>1</sup>	260	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	1.50E-05	cm/cm/°C	
Transverse	9.00E-05	cm/cm/°C	

Electrical Properties	Typical Value	Unit	Test Method
Surface Resistivity	1.00E+13	ohms	IEC 60093
Volume Resistivity	1.00E+14	ohms • cm	IEC 60093
Electric Strength	33	kV/mm	IEC 60243-1
Comparative Tracking Index	600	V	IEC 60112

Flammability	Typical Value	Unit	Test Method
Flammability Classification (0.8 mm)	HB		IEC 60695-11-10, -20

Additional Information	Typical Value	Unit	Test Method
ISO Type	PA66+PA6I/X, MH, 14-220, GF60		ISO 1874

NOTES:

<sup>1</sup>10°C/min

**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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