

Matreial Data Sheet

技术数据表 NFD Composite Material (Jiangsu) Co., Ltd

Hepla® H8050GF FR

Material Description:

0.75 mm, Black 1.5 mm, ALL

1.5 mm, Black

Oxygen Index

0.8 mm

Glow Wire Flammability Index

Hepla ® H8050GF FR is a 50% glass-fiber reinforced, flame retardant polyarylamide PARA which exhibits high strength and stiffness, outstanding surface gloss, and excellent creep resistance.

General			
Material Status	 Commercial: Active 		
	Asia Pacific		North America
Availability	• Europe		 Latin America
	Middle East		Africa
Filler/Reinforcement	 Glass Fiber, 50% Filler by W 	/eight	
Additive	Flame Retardant		
	Chemical Resistant		 Creep Resistant
	Flame Retardant		 Good Dimensional Stability
Features	High Flow		 High Strength
	Low Moisture Absorption		 Outstanding Surface Finish
	Ultra High Stiffness		
	Aircraft Applications		Appliance Components
	Bushings		Business Equipment
Llege	Camera Applications		Furniture
Uses	Gears		 Industrial Applications
	Lawn and Garden Equipment		 Machine/Mechanical Parts
	Metal Replacement		Power/Other Tools
RoHS Compliance	RoHs Compliant		
Forms	Pellets		
۸	Black		Colors Available
Appearance	Natural Color		
Processing Method	Injection Molding		
Physical Properties	Typical Value		Test Metho
Density/Specific Gravity	1.75	g/cm ³	ISO 118
Water Absorption (23℃, 24 hr)	0.15	%	ISO 6
Moisture Absorption-Equil,65% RH	1.3	%	Internal Metho
Molding Shrinkage	0.1 to 0.3	%	Internal Metho
Mechanical Properties	Typical Value	Unit	Test Metho
Tensile Modulus	20015	MPa	ISO 527-
Tensile Stress (Break)	230	MPa	ISO 527-
Tensile Strain (Break)	1.9	%	ISO 527-
Flexural Modulus	20015	MPa	ISO 17
Flexural Stress (23℃)	341	MPa	ISO 17
Impact Properties	Typical Value	Unit	Test Metho
Notched Izod Impact	95	J/m	ASTM D25
Unnotched Izod Impact	701	J/m	ASTM D481
Flammability	Typical Value	Unit	Test Metho
Flame Rating	,		UL
			32

V-0

V-0

5VA

32 %

960 ℃

ISO 4589-2

IEC 60695-2-12

1.5 mm	960 ℃	
_ 3 mm	960 ℃	
Glow Wire Ignition Temperature		IEC 60695-2-13
0.8 mm	900 ℃	
1.5 mm	930 ℃	
3 mm	900 ℃	

Electrical Properties	Typical Value	Unit	Test Method
Volume Resistivity	> 1.0E+13	Ohms-cm	IEC 60093
Electric Strength	29	kV/mm	IEC 60243-1
Dielectric Constant (110 Hz)	4.1		IEC 60250
Dissipation Factor (110 Hz)	0.012		IEC 60250
Comparative Tracking Index	400	V	IEC 60112

Thermal Properties	Typical Value	Unit	Test Method
Deflection Temperature Under Load 1.8 MPa, Unannealed	230	$^{\circ}$ C	ISO 75-2/A
CLTE - Flow	1.70E-05	cm/cm/℃	ISO 11359-2

Processing Information	Typical Value	Unit
Processing (Melt) Temp	270	$^{\circ}$ C
Mold Temperature	120 to 140	$^{\circ}\mathbb{C}$
Drying Temperature	120	$^{\circ}\mathbb{C}$
Drying Time	0.5 to 1.5	hr
Rear Temperature	250 to 260	$^{\circ}\mathbb{C}$
Front Temperature	260 to 290	$^{\circ}\mathrm{C}$
Injection Rate	Fast	

NFD ADVANCED COMPOSITES

Hepla® H8050GF FR

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质可能会在被释放,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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感谢您访问新孚达(NFD)! 我们秉承"New Formula Designer"的发展理念,将科研创新与生产应用紧密相连,无论您是设计师、工程师或者是采购专家,我们都可以帮助您拓展业务并获得新的灵感。 我们坚持诚信、合作、效率、创新的核心价值观,始终把客户放在第一位。相比于我们的竞争对手,我们专注于为您提供更先进的技术配方、更优质的产品,更好的解决方案及更周到的售后服务,我们懂市场、我们懂产品、我们更懂你们。

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