

Matreial Data Sheet

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

Hepla® H8050LGF

Material Description:

Hepla® H8050LGF is a black 50% Long Glass Fiber reinforced, heat stabilized polyarylamide PARA with excellent surface gloss, low moisture absorption and high heat deflection temperature. It exhibits unique stiffness/toughness combination, an excellent retention of properties in a wide temperature range, as well as outstanding creep resistance. Hepla® H8050LGF has a pellet length of 9mm and can be processed on most injection-molding machines.

General		
Material Status	 Commercial: Active 	
	Asia Pacific	 North America
Availability	• Europe	 Latin America
	Middle East	Africa
Filler/Reinforcement	 Long Glass Fiber, 50% Filler by Weight 	
	Creep Resistant	 Electrically Insulating
	Fatigue Resistant	 High Gloss
Features	High Impact Resistance	Low CLTE
	High Temperature Stiffness	 Low Shrinkage
	Low Warpage	
Llaca	 Aircraft Applications 	 Automotive Applications
Uses	Consumer Applications	 Industrial Applications
RoHS Compliance	 RoHs Compliant 	
Forms	• Pellets	
Appearance	 Black 	
Processing Method	Injection Molding	

Physical Properties	Typical Value	Unit	Test Method
Density	1.64	g/cm ³	ISO 1183
Water Absorption	12	04	ISO 62
Equilibrium, 23°C, 50% RH	1.2	70	130 02
Molding Shrinkage - Flow	0.1 to 0.3	%	Internal Method

Mechanical Properties	Typical Value	Unit	Test Method
Tensile Modulus			ISO 527-2
23℃	22045	MPa	
_ 70℃	22045	MPa	
Tensile Stress			ISO 527-2
23℃	266	MPa	
_ 70℃	206	MPa	
Tensile Strain(Break)	1.6	%	ISO 527-2
Flexural Modulus (23°C)	21071	MPa	ISO 178
Flexural Stress (23°C)	406	MPa	ISO 178

Impact Properties	Typical Value	Unit	Test Method
Charpy Notched Impact Strength 23℃	34.2	kJ/m²	ISO 179
Charpy Unnotched Impact Strength 23℃	60.9	kJ/m²	ISO 179

Thermal Properties	Typical Value Unit	Test Method
Heat Deflection Temperature		
0.45 MPa,Unannealed	260 ℃	ISO 75-2/B
1.8 MPa, Unannealed	255 ℃	ISO 75-2/A

Processing Information Typical Value	Unit
Processing (Melt) Temp < 310	$^{\circ}\mathbb{C}$
Mold Temperature 120 to 140	$^{\circ}\mathbb{C}$
Drying Temperature 120	$^{\circ}\mathbb{C}$
Drying Time	hr
Nozzle Temperature 270 to 310	$^{\circ}\mathbb{C}$
Rear Temperature 280 to 310	$^{\circ}\mathbb{C}$
Middle Temperature 280 to 310	$^{\circ}\mathbb{C}$
Front Temperature 280 to 310	$^{\circ}\mathbb{C}$
Suggested Max Moisture 0.08	%

NFD ADVANCED COMPOSITES

Hepla® H8050LGF

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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