

Hepla® H8050CF

Material Description:

Hepla® H8050CF is a 50% glass-fiber reinforced, general purpose polyarylamide PARA compound that exhibits very high strength and rigidity, outstanding surface gloss, and excellent creep resistance.

General

Material Status	• Commercial: Active
Availability	<ul style="list-style-type: none"> • Asia Pacific • Europe • Middle East • North America • Latin America • Africa
Filler/Reinforcement	• Carbon Fiber, 50% Filler by Weight
Features	<ul style="list-style-type: none"> • Biocompatible • Creep Resistant • General Purpose • Good Sterilizability • Radiation (Gamma) Resistant • Low Moisture Absorption • Radiation Sterilizable • Radiotranslucent • Chemical Resistant • E-beam Sterilizable • Ethylene Oxide Sterilizable • Good Dimensional Stability • High Strength • Outstanding Surface Finish • High Flow • Ultra High Stiffness
Uses	<ul style="list-style-type: none"> • Dental Applications • Medical/Healthcare Applications • Surgical Instruments • High Gloss Applications • Medical Devices • Hospital Goods
RoHS Compliance	• RoHS Compliant
Forms	• Pellets
Appearance	<ul style="list-style-type: none"> • Black • Colors Available • Grey • Natural Color
Processing Method	• Injection Molding

Physical Properties	Typical Value	Unit	Test Method
Density	1.64	g/cm ³	ISO 1183
Water Absorption (23°C, 24 hr)	0.16	%	ISO 62
Moisture Absorption - Equil, 65% RH	1.5	%	Internal Method
Molding Shrinkage	0.1 to 0.3	%	ISO 294-4

Mechanical Properties	Typical Value	Unit	Test Method
Tensile Modulus	29507	MPa	ISO 527-2
Tensile Stress (Break)	281	MPa	ISO 527-2
Tensile Strain (Break)	1.2	%	ISO 527-2
Flexural Modulus	28465	MPa	ISO 178
Flexural Stress	379	MPa	ISO 178

Impact Properties	Typical Value	Unit	Test Method
Notched Izod Impact	110.2	J/m	ASTM D256
Unnotched Izod Impact	855	J/m	ASTM D4812

Thermal Properties	Typical Value	Unit	Test Method
Deflection Temperature Under Load 1.8 MPa, Unannealed	230	°C	ISO 75-2/A
CLTE - Flow	1.50E-05	cm/cm/°C	ISO 11359-2

Processing Information	Typical Value	Unit
Processing (Melt) Temp	280	°C
Mold Temperature	120 to 140	°C
Drying Temperature	120	°C

Drying Time	0.5 to 1.5	hr
Nozzle Temperature	260 to 290	°C
Rear Temperature	250 to 260	°C
Front Temperature	260 to 290	°C
Injection Rate	Fast	

NFD ADVANCED COMPOSITES

Hepla® H8050CF

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.

上列数据仅作参考用途, 它们可能会受不同因素的影响, 使用者有责任通过实验自行确定材料特性。上述资料根据现有测试得出, 对物料特性是否适合某特殊用途及特性不能给予保证, 数据也没有任何法律约束力。更多有关详细的产品监管信息, 请联系客户服务。

COMPANY/公司:

Welcome to NFD, where the concept of "New Formula Designer" is upheld and scientific innovation and production are intertwined. Whether you are a designer, engineer or procurement expert, we can help you expand your business and get new inspiration. We adhere to the core values of credibility and integrity, cooperation, efficiency, and innovation, and always put our customers first. Compared with our competitors, we focus on providing more advanced technical formulation, better quality products, more efficient solutions and more thoughtful after-sales services. We understand the markets, the products, and you even more.

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。

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

