

Matreial Data Sheet

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

Hepla® H5040CF

Material Description:

Back Pressure

Hepla® H5040CF is a Acetal (POM) Copolymer product filled with 40% carbon fiber. Characteristics include: High Strength.

General				
Material Status	 Commercial: Active 			
	Asia Pacific		North America	
Availability	Europe		Latin America	
	Middle East		Africa	
Filler/Reinforcement	Carbon Fiber, 40% Filler by	Weight		
Thier/Keimorcement	High Strength		Good Rigidity	
	Fatigue Resistant	Creep Resistant		
Features	Wear Resistant		Good Dimensional Stability	
reatures	Low Water Absorption		Hydrolysis Stable	
	Electrical Conductive		1 Tydrolysis Stable	
Dalle Camplianes	RoHs Compliant			
RoHS Compliance	•			
-orms	• Pellets			
Appearance	Black			
Processing Method	Injection Molding			
Physical Properties	Typical Value	Unit	Test Metho	
Density/Specific Gravity	1.49		ASTM D7	
Molding Shrinkage - Flow (3.18 mm)	0.1	%	ASTM D9	
Water Absorption (23°C, 24 hr)		%	ASTM D5	
Water Absorption (23 C, 24 III)		70	701101 00	
Mechanical Properties	Typical Value	Unit	Test Metho	
Tensile Modulus	23705	MPa	ASTM D6	
Tensile Strength	180	MPa	ASTM D6	
Tensile Elongation(Yield)	0.9	%	ASTM D6	
Flexural Modulus	18120	MPa	ASTM D7	
Flexural Strength	270	MPa	ASTM D7	
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npact Properties	Typical Value	Unit	Test Metho	
Notched Izod Impact(3.2mm)	93	J/m	ASTM D2	
Unnotched Izod Impact(3.2mm)	845	J/m	ASTM D48	
lammability	Typical Value	Unit	Test Metho	
Flame Rating(1.5mm)	HB	Offic	UL	
Tarrie Nating(1.5ifiifi)	TID		ÜL.	
lectrical Properties	Typical Value	Unit	Test Meth	
Volume Resistivity	1	Ohms•cm	ASTM D2	
Surface Resistivity	1.00E+02	ohms	ASTM D2	
hermal Properties	Typical Value	Unit	Test Meth	
Deflection Temperature Under Load			ASTM D6	
0.45 MPa, Unannealed	166	$^{\circ}$ C		
1.8 MPa, Unannealed	166	$^{\circ}$		
CLTE - Flow	2.50E-05	cm/cm/℃	ASTM D6	
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Processing Information	Typical Value			
njection Pressure	68.9 to 103	MPa		

0.172 to 0.345

MPa

Mold Temperature	93 to 121	$^{\circ}$	
Drying Temperature	121	$^{\circ}$	
Drying Time	2	hr	
Rear Temperature	191 to 210	$^{\circ}$ C	
Middle Temperature	191 to 210	$^{\circ}\!\mathbb{C}$	
Front Temperature	191 to 210	$^{\circ}\!\mathbb{C}$	
Suggested Max Moisture	0.15	%	
Suggested Max Regrind	20	%	

NFD ADVANCED COMPOSITES

Hepla® H5040CF

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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COMPANY/公司:

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Modeling Marker (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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