

Matreial Data Sheet

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

Hepla® H4000 CF 15TF EC

Material Description:

Dew Point

Hepla® H4000 CF 15TF EC is a Polybutylene Terephthalate (PBT) product filled with carbon fiber and 15% PTFE. Characteristics include:Electrically Conductive.ESD Protection.PTFE Lubricated.

General			
Material Status	Commercial: Active		
	Asia Pacific		North America
Availability	Europe		Latin America
	Middle East		Africa
Filler/Reinforcement	Carbon Fiber		
Additive	PTFE Lubricant: 15%		
, idd.ii.ve	Electrically Conductive		ESD Protection
Features	Lubricated		Oil Resistance
	Heat Resistant		Low Moisture Absorption
	Good Dimensional Stability	/	2017 Melectare / Nederparen
RoHS Compliance	RoHS Compliant	<u> </u>	
Processing Method	Injection Molding		
1 Toccssing Wethou	injection wolding		
Physical Properties	Typical Value	Unit	Test Method
Density/Specific Gravity	1.44	g/cm ³	ASTM D792
Moisture Content	0.03	9, 0111	
Molding Shrinkage - Flow (3.20 mm)	0.2 to 0.4	%	ASTM D959
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Mechanical Properties	Typical Value	Unit	Test Method
Tensile Modulus	10715	MPa	ASTM D638
Tensile Strength	117	MPa	ASTM D638
Tensile Elongation(Yield)	1 to 3.2		ASTM D638
Flexural Modulus	10010	MPa	ASTM D790
Flexural Strength	184	MPa	ASTM D790
Tioxarar octoriger	101	1711 G	7.01W 2700
Impact Properties	Typical Value	Unit	Test Method
Notched Izod Impact(3.2mm)		J/m	ASTM D256
Unnotched Izod Impact(3.2mm)	438	J/m	ASTM D4812
Electrical Properties	Typical Value	Unit	Test Method
Volume Resistivity	< 1.0E+3		ASTM D257
Surface Resistivity			
,	< 1.0E+5	ohms	ESD STM11.11
	< 1.0E+6		ASTM D257
Static Decay ¹	< 2.0		FTMS 101C 4046.1
Otatio Boody			
Thermal Properties	Typical Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D64
0.45 MPa,Unannealed	182	$^{\circ}$	
1.8 MPa, Unannealed	171	$\overset{\circ}{\mathbb{C}}$	
Processing Information	Typical Value	Unit	
Injection Pressure	68.9 to 103	MPa	
Processing (Melt) Temp	238 to 271	$^{\circ}$	
Mold Temperature	79 to 107	$^{\circ}$	
Drying Temperature	121	°C	
Drying Time	4	hr	
Day Daint	20	°C	

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NOTES:

¹ MIL-PRF-81705D, 5kV to 50 V, 12% RH

NFD ADVANCED COMPOSITES

Hepla® H4000 CF 15TF EC

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:

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.

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