

Matreial Data Sheet

技术数据表

NFD Composite Material (Jiangsu) Co., Ltd

Hepla® H4000 CF EC

Material Description:

Hepla ® H4000 CF EC is a Polybutylene Terephthalate (PBT) product filled with carbon fiber. Characteristics include: ESD Protection, Electrically Conductive.

General		
Material Status	 Commercial: Active 	
Availability	Asia Pacific	 North America
	• Europe	 Latin America
	Middle East	Africa
Filler/Reinforcement	 Carbon Fiber 	
	Electrically Conductive	ESD Protection
Features	Oil Resistance	 Heat Resistant
	 Low Moisture Absorption 	 Good Dimensional Stability
RoHS Compliance	 RoHS Compliant 	
Processing Method	 Injection Molding 	

Physical Properties	Typical Value	Unit	Test Method
Density/Specific Gravity	1.35	g/cm ³	ASTM D792
Moisture Content	0.03		
Molding Shrinkage - Flow (3.20 mm)	0.1 to 0.3	%	ASTM D955

Mechanical Properties	Typical Value	Unit	Test Method
Tensile Modulus	9884	MPa	ASTM D638
Tensile Strength	105.5	MPa	ASTM D638
Tensile Elongation(Yield)	2 to 2.9	%	ASTM D638
Flexural Modulus	8421	MPa	ASTM D790
Flexural Strength	155	MPa	ASTM D790

Impact Properties	Typical Value	Unit	Test Method
Notched Izod Impact(3.2mm)	39.2	J/m	ASTM D256
Unnotched Izod Impact(3.2mm)	421	J/m	ASTM D4812

Electrical Properties	Typical Value	Unit	Test Method
Volume Resistivity	< 1.0E+3	Ohms·cm	ASTM D257
Surface Resistivity			
	< 1.0E+5	ohms	ESD STM11.11
	< 1.0E+6	ohms	ASTM D257
Static Decay ¹	< 2.0	sec	FTMS 101C 4046.1

Processing Information	Typical Value	Unit
Injection Pressure	68.9 to 103	MPa
Processing (Melt) Temp	238 to 271	${\mathbb C}$
Mold Temperature	79 to 107	${\mathbb C}$
Drying Temperature	121	${\mathbb C}$
Drying Time	4	hr
Dew Point	-29	${\mathbb C}$

NOTES

 $^{^{1}\,\}mbox{MIL-PRF-}81705\,\mbox{D},\,5\mbox{kV}$ to 50 V, 12% RH

NFD ADVANCED COMPOSITES

Hepla® H4000 CF 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。

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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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