Matreial Data Sheet

技术数据表

General

NFD Composite Material (Jiangsu) Co., Ltd

Hepla® H7220LCF

Material Description:

Hepla ® H7220LCF is a Polyamide 66 (Nylon 66) product filled with 20% Long Carbon Fiber.NFD's Long Fiber Thermoplastic (LFT) compounds are formulated for demanding applications which require high stiffness and good impact such as metal replacement or other structural applications. These products exhibit enhanced physical and mechanical properties versus standard short fiber products. Benefits of LFT compounds include improved impact strength, elastic modulus, and material strength across wide temperature ranges from subambient to highly elevated. Furthermore, LFT compounds have been shown to offer improved performance in the areas of creep and fatigue performance, improved dimensional stability, and exhibit an exceptional surface finish when compared to traditional highly filled short fiber products.

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Material Status	 Commercial: Active 			
Availability	Asia Pacific		North America	
	• Europe		Latin America	
	Middle East		Africa	
Filler/Reinforcement	 Long Carbon Fiber, 20% Fil 	ler by Weight		
Features	Creep Resistant	, ,	Heat Stabilized	
	High Temperature Stiffness	S	Low CLTE	
	Fatigue Resistant		Low Shrinkage	
	High Impact Resistance		Low Warpage	
	High Strength		Wear Resistant	
Forms	• Pellets			
Applications	Aircraft Applications		 Consumer Applications 	
	Automotive Applications		Industrial Applications	
RoHS Compliance	Contact Manufacturer		• •	
Processing Method	Injection Molding			
	, ,			
Physical Properties	Typical Value	Unit		Test Method
Specific Gravity	1.21	g/cm ³		ISO 1183
Molding Shrinkage	< 0.2	%		ISO 294-4
Mechanical Properties	Typical Value	Unit		Test Method
Tensile Modulus	17500	MPa		ISO 527-2
Tensile Stress (Break)	243	MPa		ISO 527-2
Tensile Strain (Break)	1.6	%		ISO 527-2
Flexural Modulus	12500	MPa		ISO 178
Flexural Stress	340	MPa		ISO 178
Impact Properties	Typical Value	Unit		Test Method
Charpy Notched Impact Strength	11	KJ/m ²		ISO 179
Charpy Unnotched Impact Strength	50.5	KJ/m ²		ISO 179
Gardner Impact	6.78	N•m		ASTM D5420
Odraner impact	0.70	IN III		A31101 D3420
Thermal Properties	Typical Value	Unit		Test Method
Heat Deflection Temperature	Typical value	Offic		rest ivictiou
1.8 MPa, Unannealed	258	$^{\circ}$		ISO 75-2/A
8 MPa, Unannealed	248	$^{\circ}$		ISO 75-2/C
o ivii a, oriarincaica	240	C		130 73-270
Processing Information	Typical Value	Unit		
Drying Temperature	80	°C		
Drying Time		hr		
Processing (Melt) Temp	280~310	$^{\mathrm{III}}$		
Mold Temperature	90	$^{\circ}$		
Moid Temperature	90	C		
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Injection Rate Slow-Moderate
Back Pressure 1 MPa

NFD ADVANCED COMPOSITES

Hepla® H7220LCF

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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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

