

Matreial Data Sheet

技术数据表

NFD Composite Material (Jiangsu) Co., Ltd

Hepla® H4020GF FR

Material Description:

Injection Pressure

Processing (Melt) Temp

Hepla ® H4020GF FR is a Polybutylene Terephthalate (PBT) product filled with 20% glass fiber. Characteristics include: Flame Retardant, UL94 V-0.

Retardant, UL94 V-0.			
General			
Material Status	Commercial: Active		
	Asia Pacific		North America
Availability	Europe		Latin America
	Middle East		Africa
Filler/Reinforcement	Glass Fiber, 20% Filler by W	'eiaht	7 111100
Time in Neumenderment	• Flame Retardant	oigiit	Oil Resistance
Features	Heat Resistant		Low Moisture Absorption
reatures	Good Electrical Properties		Good Dimensional Stability
RoHS Compliance	RoHS Compliant		Good Difficultional Stability
Processing Method	Injection Molding		
Troccssing Method	- Injection Molaling		
Physical Properties	Typical Value	Unit	Test Method
Density/Specific Gravity	1.56	g/cm ³	ASTM D792
Moisture Content	0.03	%	7.01.11 2.102
Molding Shrinkage - Flow (3.20 mm)	0.4 to 0.6	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.4 to 0.0	%	ASTM D570
Water Absorption (25 C, 24 m)	0.01	70	ASTIVI DOTO
Hardness	Typical Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Nookwell Haraness (K. Ssale)	110		7.01W 2700
Mechanical Properties	Typical Value	Unit	Test Method
Tensile Modulus	8086	MPa	ASTM D638
Tensile Strength	108	MPa	ASTM D638
Tensile Elongation(Yield)	3 to 4.2	%	ASTM D638
Flexural Modulus	6705	MPa	ASTM D790
Flexural Strength	162.4	MPa	ASTM D790
Impact Properties	Typical Value	Unit	Test Method
Notched Izod Impact(3.2mm)	54	J/m	ASTM D256
Unnotched Izod Impact(3.2mm)	536	J/m	ASTM D4812
Flammability	Typical Value	Unit	Test Method
Flame Rating(0.8mm)	V-0		UL 94
Electrical Properties	Typical Value	Unit	Test Method
Volume Resistivity	> 1.0E+16	Ohms·cm	ASTM D257
Dielectric Strength ¹ (in Oil)	20	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.5		ASTM D150
Dissipation Factor (1 MHz)	0.02		ASTM D150
TI 18 (1		11.7	
Thermal Properties	Typical Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	210		
1.8 MPa, Unannealed	191	$^{\circ}$	
Dunancia y Information	-T:11/-1	11.54	
Processing Information	Typical Value	Unit	

68.9 to 103

238 to 271

MPa

Mold Temperature	79 to 107 ℃
Drying Temperature	121 ℃
Drying Time	4 hr
Dew Point	-29 ℃

NOTES:

NFD ADVANCED COMPOSITES

Hepla® H4020GF FR

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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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



¹ Method A (Short-Time)