

Hepla® H2030GF

Material Description:

Hepla® H2030GF is a Polyphenylene Ether(PPE) product filled with 30% glass fiber.Characteristics include:Medium Heat Resistance.

General

Material Status	• Commercial: Active	
Availability	• Asia Pacific	• North America
	• Europe	• Latin America
	• Middle East	• Africa
Filler/Reinforcement	• Glass Fiber, 30% Filler by Weight	
Features	• Chemical Resistant	• High Heat Resistance
	• High Stiffness	• Electrical Insulation
	• Hydrolysis Stable	• Good Dimensional Stability
Uses	• Automotive Under the Hood	
RoHS Compliance	• RoHS Compliant	
Processing Method	• Injection Molding	

Physical Properties

	Typical Value	Unit	Test Method
Density	1.33	g/cm ³	ASTM D792
Moisture Absorption (Equilibrium, 50% RH)	1	%	ASTM D570
Moisture Absorption (24 hr, 50% RH)	0.5	%	ASTM D570
Molding Shrinkage - Flow (3.20 mm)	0.2 to 0.3	%	NFD Method
Molding Shrinkage - Across Flow (3.20 mm)	0.65 to 0.85	%	NFD Method

Hardness

	Typical Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785

Mechanical Properties

	Typical Value	Unit	Test Method
Tensile Stress, yield, Type I 5.0 mm/min	151	MPa	ASTM D638
Tensile Stress, break, Type I 5.0 mm/min	158	MPa	ASTM D638
Tensile Strain, break, Type I 5.0 mm/min	2.2	%	ASTM D638
Flexural Modulus, 2.6 mm/min 100 mm Span	8706	MPa	ASTM D790
Flexural Stress, yield, 2.6 mm/min 100 mm Span	251	MPa	ASTM D790

Impact Properties

	Typical Value	Unit	Test Method
Notched Izod Impact 80*10*4, 23°C	113	kJ/m ²	ISO 180
Notched Izod Impact 80*10*4, -30°C	81.3	kJ/m ²	ISO 180

Flammability

	Typical Value	Unit	Test Method
Flame Rating(1.5mm)	HB		UL 94

Electrical Properties

	Typical Value	Unit	Test Method
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Arc Resistance, Tungsten Electrode	PLC 6	ASTM D495
Comparative Tracking Index (CTI)	PLC 2	UL 746
High Amp Arc Ignition (HAI)	PLC 2	UL 746
High Voltage Arc Tracking Rate (HVTR)	PLC 1	UL 746
Hot-wire Ignition (HWI)	PLC 0	UL 746

Thermal Properties	Typical Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8MPa, Unannealed	241	°C	
0.45 MPa, Unannealed	254	°C	
Vicat Softening Temperature	249	°C	ASTM D1525
CLTE - Flow (-20 to 150°C)	2E-5 to 3.1E-5		ASTM E831
RTI Elec	50	°C	UL 746
RTI Imp	50	°C	UL 746
RTI Str	50	°C	UL 746

Processing Information	Typical Value	Unit
Melt Temperature	281 to 305	°C
Nozzle Temperature	277 to 299	°C
Mold Temperature	78 to 120	°C
Drying Temperature	93 to 108	°C
Drying Time	3 to 4	hr
Drying Time, Maximum	8	hr
Front Temperature	276 to 305	°C
Middle Temperature	270 to 305	°C
Rear Temperature	265 to 305	°C
Back Pressure	0.345 to 1.38	MPa
Screw Speed	20 to 100	rpm
Vent Depth	0.013 to 0.038	mm

NFD ADVANCED COMPOSITES

Hepla® H2030GF

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热熔温度或时间。请避免吸入或与皮肤、眼睛等接触。清扫和处理溢出的树脂, 以消除滑倒的危险。

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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