

Hepia® H5020GF

Material Description:

Hepia ® H5020GF is a Acetal (POM) Copolymer product filled with 20% Glass fiber.Characteristics include:Excellent Processability,Good Dimensional Stability.

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• North America	
	• Europe	• Latin America	
	• Middle East	• Africa	
Filler/Reinforcement	• Glass Fiber, 20% Filler by Weight		
Features	• Excellent Processability	• Good Dimensional Stability	
	• Wear Resistant	• Creep Resistant	
Uses	• Electrical/Electronic Applications	• Agricultural Applications	
	• Building Materials	• Garden Hose	
	• Industrial Applications		
Processing Method	• Injection Molding		

Physical Properties	Typical Value	Unit	Test Method
Density	1.53	g/cm ³	ASTM D792
Melt Volume -Flow Rate (MVR) 190°C/2.16 kg	4.5	cm ³ /10min	ISO 1133

Hardness	Typical Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	180	MPa	ISO 2039-1

Mechanical Properties	Typical Value	Unit	Test Method
Tensile Modulus	7500	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	110	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	3	%	ISO 527-2/1A/5

Impact Properties	Typical Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	6.5	kJ/m ²	
23°C	7	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	53	kJ/m ²	
23°C	46	kJ/m ²	

Electrical Properties	Typical Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+13	ohms·cm	IEC 60093

Flammability	Typical Value	Unit	Test Method
Glow Wire Flammability Index			IEC 60695-2-12
1.5 mm	625	°C	
3.0 mm	625	°C	
Glow Wire Ignition Temperature			IEC 60695-2-13
1.5 mm	650	°C	
3.0 mm	650	°C	
Flammability	34	mm/min	FMVSS 302

Thermal Properties	Typical Value	Unit	Test Method
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Heat Deflection Temperature		
0.45 MPa, Unannealed	163 °C	ISO 75-2/Bf
1.8 MPa, Unannealed	160 °C	ISO 75-2/Af

Injection	Typical Value	Unit
Drying Temperature	100	°C
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.040 to 0.10	%
Suggested Max Regrind	20	%
Processing (Melt) Temp	200 to 210	°C
Mold Temperature	60 to 120	°C

NFD ADVANCED COMPOSITES

Hepla® H5020GF

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。

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