

Hepla® H5010CF

Material Description:

Hepla® H5010CF is a Acetal (POM) Copolymer product filled with 10% carbon fiber. Characteristics include: High Strength and Stiffness, Electrical Conductivity.

General

Material Status	• Commercial: Active
Availability	• Asia Pacific
	• Europe
	• Middle East
Filler/Reinforcement	• Carbon Fiber, 10% Filler by Weight
	• Good Electrical Properties
	• High Stiffness
Features	• Creep Resistant
	• Good Dimensional Stability
	• Wear Resistant
RoHS Compliance	• Contact Manufacturer
	• North America
	• Latin America
	• Africa
	• Electrical Conductivity

Physical Properties	Typical Value	Unit	Test Method
Density	1.44	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) 190°C/2.16 kg	12	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	1	%	
Flow	0.8	%	

Mechanical Properties	Typical Value	Unit	Test Method
Tensile Modulus	8500	MPa	ISO 527-2/1A
Tensile Stress (Break)	100	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	1.5	%	ISO 527-2/1A/5
Flexural Modulus (23°C)	8500	MPa	ISO 178

Impact Properties	Typical Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	3.2	kJ/m ²	
23°C	3.2	kJ/m ²	

Electrical Properties	Typical Value	Unit	Test Method
Surface Resistivity	1.00E+03	ohms	IEC 60093
Volume Resistivity	2.00E+03	ohms-cm	IEC 60093

Thermal Properties	Typical Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	162	°C	ISO 75-2/B
1.8 MPa, Unannealed	158	°C	ISO 75-2/A
Melting Temperature	165	°C	ISO 11357-3
CLTE - Flow			ISO 11359-2
Flow	3.00E-05	cm/cm/°C	
Transverse	1.00E-04	cm/cm/°C	

Injection	Typical Value	Unit
Drying Temperature	100 to 120	°C
Drying Time	3.0 to 4.0	hr
Rear Temperature	170 to 180	°C
Middle Temperature	180 to 190	°C
Front Temperature	180 to 190	°C

Nozzle Temperature	190 to 200	°C
Processing (Melt) Temp	180 to 200	°C
Mold Temperature	80 to 120	°C
Injection Rate	Slow	
Back Pressure	< 2.00	MPa

Injection Notes

Zone4 temperature: 190 to 200°C

Hot runner temperature: 190 to 210°C

NFD ADVANCED COMPOSITES

Hepla® H5010CF

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。

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