

Heppla® H7000 SF EC

Material Description:

Heppla® H7000 SF EC is a compound based on (PA12)resin containing Stainless Steel. Added features of this material include: Electrically Conductive.

General	
Material Status	• Commercial: Active
Availability	• Asia Pacific
	• Europe
	• Middle East
Filler/Reinforcement	• Stainless Steel
	• High Impact Resistance
	• Fatigue Resistant
Features	• Chemical Resistant
	• Heat Resistant
	• Wear Resistant
	• Low Water Absorption
	• Hospital Goods
	• Industrial Applications
Applications	• Medical/Healthcare Applications
	• Aircraft Applications
	• Medical Devices
RoHS Compliance	• RoHS Compliant
Processing Method	• Injection Molding

Physical Properties	Typical Value	Unit	Test Method
Density	1.102	g/cm ³	ASTM D792
Density	1.09	g/cm ³	ISO 1183
Moisture Absorption (24hr, 50% RH)	0.2	%	ASTM D570
Moisture Absorption (23°C, 50% RH)	0.3	%	ISO 62
Mold Shrinkage			ASTM D955
Flow,24 hrs	1.1	%	
Across Flow,24 hrs	1.7	%	
Mold Shrinkage			ISO 294
Flow,24 hrs	1.12	%	
Across Flow,24 hrs	1.7	%	

Mechanical Properties	Typical Value	Unit	Test Method
Tensile Modulus, 50 mm/min	2071	MPa	ASTM D638
Tensile Stress, yield	45	MPa	ASTM D638
Tensile Stress, break	36.9	MPa	ASTM D638
Tensile Strain, yield	5.2	%	ASTM D638
Tensile Strain, break	119	%	ASTM D638
Flexural Modulus	1635	MPa	ASTM D790
Flexural Stress	61.4	MPa	ASTM D790

Impact Properties	Typical Value	Unit	Test Method
Notched Izod Impact, 23°C	74.5	J/m	ASTM D256
Unnotched Izod Impact, 23°C	No Break		ASTM D4812
Notched Izod Impact 80*10*4, 23°C	7.5	kJ/m ²	ISO 180/1A
Unnotched Izod Impact 80*10*4, 23°C	84.2	kJ/m ²	ISO 180/1U
Instrumented Impact Total Energy 23°C	9.73	J	ASTM D3763
Multiaxial Impact	20.8	J	ISO 6603

Electrical Properties	Typical Value	Unit	Test Method
Surface Resistivity	1E2 to 1E6	Ohms	ASTM D257

Thermal Properties	Typical Value	Unit	Test Method
Deflection Temperature Under Load			
1.82MPa, Unannealed, 3.2mm	67.7	°C	ASTM D648
0.45MPa, Unannealed, 3.2mm	114	°C	ASTM D648
/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	73.8	°C	ISO 75/Af
/Bf, 1.8 MPa Flatw 80*10*4 sp=64mm	104	°C	ISO 75/Bf
CLTE			ASTM E831
-40°C to 40°C, Flow	1.03E-04	1/°C	
-40°C to 40°C, Xflow	9.93E-05	1/°C	
CLTE			ISO 11359-2
-40°C to 40°C, Flow	1.04E-04	1/°C	
-40°C to 40°C, Xflow	9.94E-05	1/°C	

Processing Information	Typical Value	Unit
Melt Temperature	225 to 240	°C
Mold Temperature	70 to 80	°C
Drying Temperature	80	°C
Drying Time	4	hr
Front Temperature	225 to 240	°C
Middle Temperature	220 to 230	°C
Rear Temperature	215 to 225	°C
Back Pressure	0.2 to 0.3	MPa
Screw Speed	30 to 60	rpm
Maximum Moisture Content	0.12 to 0.2	%

NFD ADVANCED COMPOSITES Hepla® H7000 SF EC

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.

上列数据仅作参考用途, 它们可能会受不同因素的影响, 使用者有责任通过实验自行确定材料特性。上述资料根据现有测试得出, 对物料特性是否适合某特殊用途及特性不能给予保证, 数据也没有任何法律约束力。更多有关详细的产品监管信息, 请联系客户服务

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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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