

Hepia® H7315CF H

Material Description:

Hepia® H7315CF H is a Polyamide 46 (Nylon 46) product filled with carbon fiber and Heat Stabilizer. Characteristics include: Strong, stiff parts. Electrically conductive, suitable for continuous discharging of statically-generated electricity.

General

Material Status	• Commercial: Active
Availability	<ul style="list-style-type: none"> • Asia Pacific • Europe • Middle East • North America • Latin America • Africa
Filler/Reinforcement	• Carbon Fiber
Additive	• Heat Stabilizer
Features	<ul style="list-style-type: none"> • Electrically Conductive • ESD Protection • Heat Stabilized • Good Stiffness • Good Strength
RoHS Compliance	• RoHS Compliant
Forms	• Pellets
Appearance	• Black
Processing Method	• Injection Molding

Physical Properties	Typical Value	Unit	Test Method
Density/Specific Gravity	1.25	g/cm ³	ISO 1183
Water Absorption (24 hr, 23°C)	< 1.0	%	ISO 62
Molding Shrinkage	0.2 to 0.5	%	DIN 16742

Mechanical Properties	Typical Value	Unit	Test Method
Tensile Modulus	12500	MPa	ISO 527-2/1
Tensile Stress	224	MPa	ISO 527-2/50
Tensile Strain (Yield)	2.6	%	ISO 527-2/50
Flexural Modulus ¹	10200	MPa	ISO 178
Flexural Stress ²	318	MPa	ISO 178
Flexural Strain - at max. force ²	3.2	%	ISO 178

Impact Properties	Typical Value	Unit	Test Method
Charpy Notched Impact Strength ³	6.2	KJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength ³	51	KJ/m ²	ISO 179/1eU

Thermal Properties	Typical Value	Unit	Test Method
Continuous Use Temperature ⁴	150	°C	IEC 60216
Vicat Softening Temperature	290	°C	ISO 306/A
CLTE - Flow ⁵ (4.00 mm)	2.00E-05	cm/cm/°C	ISO 11359-2
Service Temperature - during lifetime max. 200 hr	160	°C	

Electrical Properties	Typical Value	Unit	Test Method
Surface Resistivity (4.00 mm)	< 1.0E +4	ohms	IEC 60093
Insulation Resistance ⁶	< 1.0E +5	ohms	IEC 60167

Processing Information	Typical Value	Unit
Drying Temperature		
Desiccant Dryer	80	°C
Vacuum Dryer	80	°C
Drying Time		
Desiccant Dryer	2.0 to 8.0	hr

Vacuum Dryer	2.0 to 12.0	hr
Suggested Max Moisture	0.1	%
Rear Temperature	285 to 315	°C
Middle Temperature	305 to 315	°C
Front Temperature	305 to 315	°C
Nozzle Temperature	280 to 330	°C
Processing (Melt) Temp	310	°C
Mold Temperature	90 to 130	°C

NoTes

- ¹ 2.0 mm/min
- ² 10 mm/min
- ³ 80x10x4mm
- ⁴ 20,000 hr
- ⁵ 10x8x4 mm
- ⁶ Strip Electrode R25

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.

上列数据只作参考用途, 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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