

Heppla® H7210CF

Material Description:

Heppla® H7210CF is a Polyamide 66 (Nylon 66) product filled with 10% carbon fiber. Characteristics include: Wear Resistant, Electrically Conductive.

General

| | |
|----------------------|--------------------------------------|
| Material Status | • Commercial: Active |
| Availability | • Asia Pacific |
| | • Europe |
| | • Middle East |
| Filler/Reinforcement | • Carbon Fiber, 10% Filler by Weight |
| | • Creep Resistant |
| | • Electrically Conductive |
| Features | • Fatigue Resistant |
| | • High Impact Resistance |
| | • Weather Resistant |
| | • Heat Resistant |
| | • Aircraft Applications |
| | • Automotive Applications |
| Applications | • North America |
| | • Latin America |
| RoHS Compliance | • Africa |
| Processing Method | • Hot Water Moldability |
| | • Low CLTE |
| | • Low Shrinkage |
| Applications | • Low Warpage |
| | • Wear Resistant |
| | • High Temperature Stiffness |
| RoHS Compliance | • Consumer Applications |
| Processing Method | • Industrial Applications |
| | • Injection Molding |

| Physical Properties | Typical Value | Unit | Test Method |
|---------------------------------|---------------|-------------------|-------------|
| Specific Gravity | 1.18 | g/cm ³ | ASTM D792 |
| Molding Shrinkage -Flow (3.2mm) | 0.2 to 0.4 | % | ASTM D955 |
| Moisture Content | 0.2 | % | |

| Mechanical Properties | Typical Value | Unit | Test Method |
|---------------------------|---------------|------|-------------|
| Tensile Modulus | 9072 | MPa | ASTM D638 |
| Tensile Strength | 147 | MPa | ASTM D638 |
| Tensile Elongation(Yield) | 2 to 3 | % | ASTM D638 |
| Flexural Modulus | 6768 | MPa | ASTM D790 |
| Flexural Strength | 211 | MPa | ASTM D790 |

| Impact Properties | Typical Value | Unit | Test Method |
|-------------------------------|---------------|------|-------------|
| Notched Izod Impact (3.2mm) | 42.5 | J/m | ASTM D256 |
| Unnotched Izod Impact (3.2mm) | 422 | J/m | ASTM D4812 |

| Electrical Properties | Typical Value | Unit | Test Method |
|-----------------------|---------------|--------|-------------|
| Volume Resistivity | <1E5 | Ohm cm | ASTM D257 |

| Flammability | Typical Value | Unit | Test Method |
|--|---------------|------|-------------|
| Ignition Resistance ¹ Flammability (1.5mm) | HB | | ASTM D635 |

| Processing Information | Typical Value | Unit |
|------------------------|---------------|------|
| Injection Pressure | 70 to 125 | MPa |
| Melt Temperature | 275 to 301 | °C |
| Mold Temperature | 65 to 108 | °C |
| Drying Temperature | 79 | °C |
| Drying Time | 4 | hr |
| Dew Point | -18 | °C |

Notes: Desiccant Type Dryer Required.

¹This rating is not intended to reflect hazards of this or any other material under actual fire conditions.

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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