

Hepla® H7030GF H

Material Description:

Hepla® H7030GF H is a Polyamide 12 (PA12) material filled with 30% glass fiber and Heat Stabilizer. Characteristics include: FDA, Heat Stabilized. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.

| General | |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Material Status | • Commercial: Active |
| Availability | <ul style="list-style-type: none"> • Asia Pacific • Europe • Middle East • North America • Latin America • Africa |
| Filler/Reinforcement | • Glass Fiber, 30% Filler by Weight |
| Additive | • Heat Stabilizer |
| Features | <ul style="list-style-type: none"> • Food Contact Acceptable • Hydrolysis Resistant • Low Water Absorption • Wear Resistant • Heat Stabilized • Chemical Resistant • Good Dimensional Stability |
| Uses | <ul style="list-style-type: none"> • Consumer Applications • Industrial Applications • Household Goods |
| Forms | • Granules |
| RoHS Compliance | • RoHS Compliant |
| Processing Method | • Injection Molding |

| Physical Properties | Typical Value | Unit | Test Method |
|-------------------------------------------------|---------------|-------------------|-------------|
| Density | 1.22 | g/cm ³ | ISO 1183 |
| Water Absorption (Equilibrium, 23°C, 50% RH) | 0.6 | % | ISO 62 |
| Water Absorption (Saturation, 23°C, 50% RH) | 1.1 | % | ISO 62 |
| Mold Shrinkage | | | ISO 294-4 |
| Flow | 0.1 | % | |
| Across Flow | 0.7 | % | |

| Hardness | Typical Value | Unit | Test Method |
|----------------------------------|---------------|------|-------------|
| Shore Hardness (Shore D, 15 sec) | 77 | | ISO 868 |
| Ball Indentation Hardness | 120 | | ISO 2039-1 |

| Mechanical Properties | Typical Value | Unit | Test Method |
|-----------------------|---------------|------|-------------|
| Tensile Modulus | 6601 | MPa | ISO 527-2/1 |
| Tensile Stress, break | 121 | MPa | ISO 527-2/1 |
| Tensile Strain, break | 5.9 | % | ISO 527-2/1 |

| Impact Properties | Typical Value | Unit | Test Method |
|----------------------------------|---------------|-------------------|-------------|
| Charpy Notched Impact Strength | | | ISO 179/1eA |
| -30°C | 14.7 | kJ/m ² | |
| 23°C | 18.6 | kJ/m ² | |
| Charpy Unnotched Impact Strength | | | ISO 179/1eU |
| -30°C | 89 | kJ/m ² | |
| 23°C | 89 | kJ/m ² | |

| Flame Characteristics | Typical Value | Unit | Test Method |
|-------------------------------------|---------------|------|----------------------|
| Flammability Classification(0.8 mm) | HB | | IEC 60695-11-10, -20 |

| Electrical Properties | Typical Value | Unit | Test Method |
|-----------------------|---------------|------|-------------|
|-----------------------|---------------|------|-------------|

| | | | |
|----------------------------|----------|---------|-------------|
| Electric Strength | 35.3 | kV/mm | IEC 60243-1 |
| Volume Resistivity | 1.00E+14 | Ohms•cm | IEC 60093 |
| Surface Resistivity | 1.00E+13 | Ohms | IEC 60093 |
| Comparative Tracking Index | 600 | V | IEC 60112 |

| Thermal Properties | Typical Value | Unit | Test Method |
|------------------------------------------------------------------------------------------|---------------|------|-------------|
| Heat Deflection Temperature Under Load /Cf, 8 MPa Flatw 80*10*4 sp=64mm Unannealed | 90 | °C | ISO 75/Cf |
| /Af, 1.8 MPa Flatw 80*10*4 sp=64mm Unannealed | 160 | °C | ISO 75/Af |
| Continuous Use Temperature Long Term | 90 to 120 | °C | ISO 2578 |
| Continuous Use Temperature Short Term | 150 | °C | NFD Method |
| Melting Temperature, 10°C/min | 178 | °C | ISO 11357-3 |
| CLTE | | | ISO 11359-2 |
| Flow | 2.00E-05 | 1/°C | |
| Xflow | 1.50E-04 | 1/°C | |

NFD ADVANCED COMPOSITES

Hepla® H7030GF H

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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CONTACT:

CHINA/JIANG SU

江苏新孚达复合材料有限公司

NFD Composite Material (Jiangsu) Co., Ltd

Email:yanghui@nfdpla.com

Internet:www.nfdpla.com

