

Matreial Data Sheet

技术数据表

NFD Composite Material (Jiangsu) Co., Ltd

ASTM D2133

Hepla® H9035GF

Material Description:

Melting Temperature

Hepla ® H9035GF is a 35% glass fiber reinforced PPA, thermal stability, high strength and high modulus, good dimensional stability, excellent electrical properties.

| General | | | |
|---|--|------------|----------------------------|
| Material Status | Commercial: Active | | |
| | Asia Pacific | | North America |
| Availability | Europe | | Latin America |
| • | Middle East | | Africa |
| Filler/Reinforcement | Glass Fiber, 35% Filler by W | 'eiaht | |
| Features | Good Dimensional Stability | | Good Electrical Properties |
| | High Strength | | Thermal Stability |
| | Automotive Applications | | Electrical Parts |
| Uses | Housings | | |
| Appearance | Natural Color | | |
| Processing Method | Injection Molding | | |
| Treesesing Methed | injection interaing | | |
| Physical Properties | Typical Value | Unit | Test Me |
| Density/Specific Gravity | 1.47 | g/cm³ | ASTM I |
| Molding Shrinkage | | | ASTM I |
| Flow | 0.30 to 0.50 | % | |
| Across Flow | 0.40 to 0.60 | | |
| Water Absorption (Equilibrium) | 0.25 | % | ASTM I |
| (| | | |
| Hardness | Typical Value | Unit | Test Me |
| Rockwell Hardness (R-Scale) | 120 | Onne | ASTM I |
| Nockwell Haraness (N. Scale) | 120 | | 7.01111 |
| Mechanical Properties | Typical Value | Unit | Test Me |
| Tensile Strength ¹ | 230 | MPa | ASTM I |
| Tensile Strength Tensile Elongation ¹ (Break) | 2.4 | % | ASTM I |
| Flexural Modulus ² | 12000 | MPa | ASTM I |
| Flexural Strength ² | 312 | MPa | ASTM I |
| Hexurai Strength | UIZ | IVII G | 7.01111 |
| mpact Properties | Typical Value | Unit | Test Me |
| Charpy Unnotched Impact Strength | > 400 | | ASTM D |
| Notched Izod Impact | 110 | J/m | ASTM I |
| Noterica izoa impact | 110 | 3/111 | ASTIVIT |
| Flammability | Typical Value | Unit | Test Me |
| Flame Rating | Typical value | Offic | Test ivic |
| 1.6 mm | НВ | | |
| 3.2 mm | HB | | |
| 3.2 111111 | TID | | |
| Electrical Properties | Typical Value | Unit | Test Me |
| Volume Resistivity | 1E+15 | ohms·cm | IEC 6 |
| Electric Strength | 27 | kV/mm | IEC 602 |
| Comparative Tracking Index | 500 | V | IEC 602 |
| comparative tracking index | 300 | ٧ | ILC 0 |
| Thermal Properties | Typical Value | Unit | Test Me |
| Deflection Temperature Under Load | | | ASTM I |
| 0.45 MPa, Unannealed | 280 | °C | ASTIVIT |
| 1.8 MPa, Unannealed | 272 | | |
| · | 280 | $^{\circ}$ | A CTA A D.4 |
| Vicat Softening Temperature S | 200 | | ASTM D1 |

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| Processing Information | Typical Value | Unit |
|------------------------|---------------|---------------|
| Drying Temperature | 100 to 130 | ${\mathbb C}$ |
| Drying Time | 3.0 to 4.0 | hr |
| Rear Temperature | 280 to 300 | ${\mathbb C}$ |
| Middle Temperature | 290 to 330 | ${\mathbb C}$ |
| Front Temperature | 290 to 320 | ${\mathbb C}$ |
| Processing (Melt) Temp | 290 to 300 | ${\mathbb C}$ |
| Mold Temperature | 110 to 150 | ${\mathbb C}$ |
| Injection Rate | Slow-Moderate | |
| Back Pressure | 1.00 to 2.00 | MPa |

Injection Notes

Processing Temp. Limit <340℃

Notes

- ¹ 50 mm/min
- ² 20 mm/min
- ³ .125"
- ⁴ Rate A (50°C/h)

NFD ADVANCED COMPOSITES

Hepla® H9035GF

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。

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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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