

HiFill® PA6 GF25 IM L

Polyamide 6
Techmer Engineered Solutions

Message:

HiFill®PA6 GF25 IM L is a polyamide 6 (nylon 6) product that contains a filler of glass fiber reinforcement. It can be processed by injection molding and is available in North America.

Features include:

- Impact modification
- Impact resistance

| General Information | | | |
|-------------------------------------|---------------------------------|-------------------|-------------|
| Filler / Reinforcement | Glass fiber reinforced material | | |
| Additive | Impact modifier | | |
| Features | Impact resistance, high | | |
| Appearance | Available colors | | |
| Forms | Particle | | |
| Processing Method | Injection molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.27 | g/cm ³ | ASTM D792 |
| Molding Shrinkage - Flow (3.18 mm) | 0.10 | % | ASTM D955 |
| Water Absorption (24 hr) | 0.90 | % | ASTM D570 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale) | 112 | | ASTM D785 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (Break) | 124 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 4.5 | % | ASTM D638 |
| Flexural Modulus | 6550 | MPa | ASTM D790 |
| Flexural Strength | 172 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C, 3.18 mm) | 210 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load | | | ASTM D648 |
| 0.45 MPa, not annealed | 213 | °C | ASTM D648 |
| 1.8 MPa, not annealed | 204 | °C | ASTM D648 |
| CLTE - Flow | 1.3E-5 | cm/cm/°C | ASTM D696 |
| Electrical | Nominal Value | Unit | Test Method |
| Volume Resistivity | 5.0E+15 | ohms · cm | ASTM D257 |
| Dielectric Strength ¹ | 16 | kV/mm | ASTM D149 |
| Injection | Nominal Value | Unit | |
| Drying Temperature | 82.2 | °C | |
| Drying Time | 2.0 - 4.0 | hr | |

| | | |
|------------------------|---------------|-----|
| Suggested Max Moisture | 0.10 | % |
| Rear Temperature | 266 - 277 | °C |
| Middle Temperature | 277 - 288 | °C |
| Front Temperature | 271 - 282 | °C |
| Nozzle Temperature | 271 - 282 | °C |
| Processing (Melt) Temp | 277 - 288 | °C |
| Mold Temperature | 79.4 - 104 | °C |
| Injection Rate | Slow-Moderate | |
| Back Pressure | 0.00 - 0.345 | MPa |

Injection instructions

Screw Speed: MediumRecommendations for Molding and Tool Conditions: Well vented moldMoisture Content, as received: Product is packaged at 0.2% or less.

NOTE

- Method A (short time)

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

