

Rhelon G1025-00

Polyamide 6

RheTech, Inc.

Message:

Rhelon G1025-00 is a Polyamide 6 (Nylon 6) product filled with 25% glass fiber. It can be processed by injection molding and is available in North America.

| General Information | | | |
|---|----------------------------------|-------------------|-------------|
| Filler / Reinforcement | Glass Fiber,25% Filler by Weight | | |
| Appearance | Natural Color | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.29 | g/cm ³ | ASTM D792 |
| Molding Shrinkage - Flow | 0.20 to 0.40 | % | ASTM D955 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength | 164 | MPa | ASTM D638 |
| Tensile Elongation | | | ASTM D638 |
| Yield | 3.0 | % | |
| Break | 3.0 | % | |
| Flexural Modulus | 7150 | MPa | ASTM D790 |
| Flexural Strength | 228 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C) | 110 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 212 | °C | ASTM D648 |
| Peak Melting Temperature | 216 | °C | ASTM D789 |
| CLTE - Flow | 5.3E-6 | cm/cm/°C | ASTM D696 |
| Injection | Nominal Value | Unit | |
| Drying Temperature | 79.4 | °C | |
| Suggested Max Moisture | 0.20 | % | |
| Suggested Max Regrind | 25 | % | |
| Rear Temperature | 218 to 235 | °C | |
| Middle Temperature | 252 to 263 | °C | |
| Front Temperature | 252 to 268 | °C | |
| Nozzle Temperature | 252 to 268 | °C | |
| Processing (Melt) Temp | 249 to 266 | °C | |

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