

Rhelon G1715H-01

Polyamide 6

RheTech, Inc.

Message:

Rhelon G1715H-01 is a Polyamide 6 (Nylon 6) product filled with 15% glass fiber. It can be processed by injection molding and is available in North America.

| General Information | | | |
|---|-----------------------------------|-------------------|-------------|
| Filler / Reinforcement | Glass Fiber, 15% Filler by Weight | | |
| Appearance | Black | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.26 | g/cm ³ | ASTM D792 |
| Molding Shrinkage - Flow | 0.20 to 0.40 | % | ASTM D955 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength | 84.1 | MPa | ASTM D638 |
| Tensile Elongation | | | ASTM D638 |
| Yield | 2.0 | % | |
| Break | 2.0 | % | |
| Flexural Modulus | 4690 | MPa | ASTM D790 |
| Flexural Strength | 200 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C) | 37 | 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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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

