

# Rhelon F2538AH-01

Polyamide 66

RheTech, Inc.

Message:

Rhelon F2538AH-01 is a Polyamide 66 (Nylon 66) product filled with glass\mineral. It can be processed by injection molding and is available in North America. Primary characteristic: heat stabilizer.

| General Information                                     |                   |                   |             |
|---------------------------------------------------------|-------------------|-------------------|-------------|
| Filler / Reinforcement                                  | Glass\Mineral     |                   |             |
| Additive                                                | Heat Stabilizer   |                   |             |
| Features                                                | Heat Stabilized   |                   |             |
| Appearance                                              | Black             |                   |             |
| Processing Method                                       | Injection Molding |                   |             |
| Physical                                                | Nominal Value     | Unit              | Test Method |
| Specific Gravity                                        | 1.47              | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow                                | 0.20 to 0.45      | %                 | ASTM D955   |
| Mechanical                                              | Nominal Value     | Unit              | Test Method |
| Tensile Strength                                        | 118               | MPa               | ASTM D638   |
| Tensile Elongation                                      |                   |                   | ASTM D638   |
| Yield                                                   | 3.0               | %                 |             |
| Break                                                   | 3.0               | %                 |             |
| Flexural Modulus                                        | 9390              | MPa               | ASTM D790   |
| Flexural Strength                                       | 16.5              | MPa               | ASTM D790   |
| Impact                                                  | Nominal Value     | Unit              | Test Method |
| Notched Izod Impact (23°C)                              | 48                | J/m               | ASTM D256   |
| Thermal                                                 | Nominal Value     | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 252               | °C                | ASTM D648   |
| Peak Melting Temperature                                | 255               | °C                | ASTM D789   |
| CLTE - Flow                                             | 5.5E-6            | cm/cm/°C          | ASTM D696   |
| Injection                                               | Nominal Value     | Unit              |             |
| Drying Temperature                                      | 79.4              | °C                |             |
| Suggested Max Moisture                                  | 0.20              | %                 |             |
| Suggested Max Regrind                                   | 20                | %                 |             |
| Rear Temperature                                        | 295               | °C                |             |
| Middle Temperature                                      | 295               | °C                |             |
| Front Temperature                                       | 300               | °C                |             |
| Nozzle Temperature                                      | 300               | °C                |             |
| Processing (Melt) Temp                                  | 285 to 300        | °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

