

# RheTech Polypropylene GC10P250-00

Polypropylene Copolymer

RheTech, Inc.

Message:

10% Glass Fiber Reinforced, Chemically Coupled, Non-UV Stabilized, Polypropylene Copolymer, Natural

| General Information                       |                                                       |                   |             |
|-------------------------------------------|-------------------------------------------------------|-------------------|-------------|
| Filler / Reinforcement                    | Glass fiber reinforced material, 10% filler by weight |                   |             |
| Features                                  | Copolymer                                             |                   |             |
|                                           | Chemical coupling                                     |                   |             |
| Appearance                                | Natural color                                         |                   |             |
| Processing Method                         | Injection molding                                     |                   |             |
| Physical                                  | Nominal Value                                         | Unit              | Test Method |
| Specific Gravity                          | 0.968                                                 | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 11                                                    | g/10 min          | ASTM D1238  |
| Hardness                                  | Nominal Value                                         | Unit              | Test Method |
| Durometer Hardness (Shore D)              | 64                                                    |                   | ASTM D2240  |
| Mechanical                                | Nominal Value                                         | Unit              | Test Method |
| Tensile Strength                          | 51.0                                                  | MPa               | ASTM D638   |
| Flexural Modulus                          | 2210                                                  | MPa               | ASTM D790   |
| Impact                                    | Nominal Value                                         | Unit              | Test Method |
| Notched Izod Impact                       | 91                                                    | J/m               | ASTM D256   |
| Dart Drop Impact                          | 2.03                                                  | J                 | ASTM D5420  |
| Thermal                                   | Nominal Value                                         | Unit              | Test Method |
| Deflection Temperature Under Load         |                                                       |                   | ASTM D648   |
| 0.45 MPa, not annealed                    | 149                                                   | °C                | ASTM D648   |
| 1.8 MPa, not annealed                     | 107                                                   | °C                | ASTM D648   |
| Injection                                 | Nominal Value                                         | Unit              |             |
| Drying Temperature                        | 65.6 - 82.2                                           | °C                |             |
| Drying Time                               | 1.0 - 2.0                                             | hr                |             |
| Suggested Max Moisture                    | 0.050                                                 | %                 |             |
| Rear Temperature                          | 193 - 221                                             | °C                |             |
| Middle Temperature                        | 199 - 227                                             | °C                |             |
| Front Temperature                         | 204 - 232                                             | °C                |             |
| Nozzle Temperature                        | 210 - 221                                             | °C                |             |
| Mold Temperature                          | 26.7 - 48.9                                           | °C                |             |
| Injection Pressure                        | 2.76 - 10.3                                           | MPa               |             |
| Holding Pressure                          | 2.07 - 8.27                                           | MPa               |             |

|               |              |     |
|---------------|--------------|-----|
| Back Pressure | 0.345 - 1.03 | MPa |
|---------------|--------------|-----|

#### Injection instructions

Injection Speed: Variable - Application DependantScrew RPM: Recovery 3 seconds before mold opensCycle Time: Wall Thickness Dependant

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



WECHAT