

## RheTech Products P250-00 Polypropylene Copolymer, Natural

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene Copolymer

### Material Notes:

Applications: ConsolesComponent housingsInterior componentsInjection molding conditions reported in table.Information provided by RheTech Products.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_RheTech-Products-P250-00-Polypropylene-Copolymer-Natural.php](http://www.lookpolymers.com/polymer_RheTech-Products-P250-00-Polypropylene-Copolymer-Natural.php)

| Physical Properties   | Metric                                               | English                                              | Comments           |
|-----------------------|------------------------------------------------------|------------------------------------------------------|--------------------|
| Specific Gravity      | 0.900 g/cc                                           | 0.900 g/cc                                           | 23/23°C; ASTM D792 |
| Linear Mold Shrinkage | 0.0145 cm/cm                                         | 0.0145 in/in                                         | ASTM D955          |
| Melt Flow             | 8.0 g/10 min<br>@Load 2.16 kg,<br>Temperature 230 °C | 8.0 g/10 min<br>@Load 4.76 lb,<br>Temperature 446 °F | ASTM D1238         |

| Mechanical Properties     | Metric                            | English                               | Comments            |
|---------------------------|-----------------------------------|---------------------------------------|---------------------|
| Hardness, Shore D         | 65                                | 65                                    | ASTM D2240          |
| Tensile Strength at Break | 25.2 MPa                          | 3650 psi                              | 2 in/min; ASTM D638 |
| Flexural Modulus          | 1.03 GPa                          | 150 ksi                               | Tangent; ASTM D790  |
| Izod Impact, Notched      | 1.39 J/cm<br>@Temperature 23.0 °C | 2.60 ft-lb/in<br>@Temperature 73.4 °F | ASTM D256           |
| Gardner Impact            | 22.6 J                            | 16.7 ft-lb                            | ASTM D5420          |

| Thermal Properties                          | Metric  | English | Comments  |
|---------------------------------------------|---------|---------|-----------|
| Deflection Temperature at 0.46 MPa (66 psi) | 80.0 °C | 176 °F  | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 50.6 °C | 123 °F  | ASTM D648 |

| Processing Properties     | Metric       | English      | Comments |
|---------------------------|--------------|--------------|----------|
| Rear Barrel Temperature   | 188 - 216 °C | 370 - 420 °F |          |
| Middle Barrel Temperature | 193 - 221 °C | 380 - 430 °F |          |
| Front Barrel Temperature  | 199 - 227 °C | 390 - 440 °F |          |
| Nozzle Temperature        | 204 - 216 °C | 400 - 420 °F |          |

| Mold Temperature<br>Processing Properties | 26.7 - 48.9 °C<br>Metric | 80.0 - 120 °F<br>English | Comments    |
|-------------------------------------------|--------------------------|--------------------------|-------------|
| Drying Temperature                        | 65.6 - 82.2 °C           | 150 - 180 °F             |             |
| Dry Time                                  | 1 - 2 hour               | 1 - 2 hour               |             |
| Moisture Content                          | <= 0.050 %               | <= 0.050 %               | Recommended |
| Injection Pressure                        | 2.76 - 10.3 MPa          | 400 - 1500 psi           |             |
| Hold Pressure                             | 2.07 - 8.27 MPa          | 300 - 1200 psi           |             |
| Back Pressure                             | 0.345 - 1.03 MPa         | 50.0 - 150 psi           |             |

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