

## Clariant Renol PEEKSP003 Polyetheretherketone, Glass Fiber, PTFE Lubricated

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK) , Polyetheretherketone, PEEK, Glass Fiber Filled , Polyetheretherketone, PEEK, PTFE-Filled

### Material Notes:

Data provided by Clariant Masterbatches

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Clariant-Renol-PEEKSP003-Polyetheretherketone-Glass-Fiber-PTFE-Lubricated.php](http://www.lookpolymers.com/polymer_Clariant-Renol-PEEKSP003-Polyetheretherketone-Glass-Fiber-PTFE-Lubricated.php)

| Physical Properties         | Metric       | English      | Comments  |
|-----------------------------|--------------|--------------|-----------|
| Specific Gravity            | 1.63 g/cc    | 1.63 g/cc    | ASTM D792 |
| Linear Mold Shrinkage, Flow | 0.0030 cm/cm | 0.0030 in/in | ASTM D955 |

| Mechanical Properties   | Metric                            | English                               | Comments  |
|-------------------------|-----------------------------------|---------------------------------------|-----------|
| Tensile Strength, Yield | 155 MPa                           | 22500 psi                             | ASTM D638 |
| Flexural Yield Strength | 241 MPa                           | 35000 psi                             | ASTM D790 |
| Flexural Modulus        | 11.0 GPa                          | 1600 ksi                              | ASTM D790 |
| Izod Impact, Notched    | 1.07 J/cm<br>@Temperature 22.8 °C | 2.00 ft-lb/in<br>@Temperature 73.0 °F | ASTM D256 |

| Thermal Properties                          | Metric | English | Comments  |
|---------------------------------------------|--------|---------|-----------|
| Deflection Temperature at 1.8 MPa (264 psi) | 290 °C | 554 °F  | ASTM D648 |

| Processing Properties | Metric                           | English                          | Comments                               |
|-----------------------|----------------------------------|----------------------------------|----------------------------------------|
| Melt Temperature      | 349 - 399 °C                     | 660 - 750 °F                     |                                        |
| Mold Temperature      | 163 - 218 °C                     | 325 - 425 °F                     |                                        |
| Dry Time              | <= 3 hour<br>@Temperature 149 °C | <= 3 hour<br>@Temperature 300 °F | to ensure moisture level is below 0.1% |
| Injection Pressure    | 49.6 - 74.5 MPa                  | 7200 - 10800 psi                 | Secondary                              |
|                       | 82.7 - 124 MPa                   | 12000 - 18000 psi                | Initial                                |
| Back Pressure         | 0.000 - 0.345 MPa                | 0.000 - 50.0 psi                 |                                        |
| Shot Size             | 30 - 80 %                        | 30 - 80 %                        |                                        |
| Screw Speed           | 20 - 50 rpm                      | 20 - 50 rpm                      |                                        |

## Contact Songhan Plastic Technology Co.,Ltd.

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