

## Clariant Renol 6253 Nylon 6, High Impact

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Impact Grade

### Material Notes:

Data provided by Clariant Masterbatches

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Clariant-Renol-6253-Nylon-6-High-Impact.php](http://www.lookpolymers.com/polymer_Clariant-Renol-6253-Nylon-6-High-Impact.php)

| Physical Properties         | Metric      | English     | Comments  |
|-----------------------------|-------------|-------------|-----------|
| Specific Gravity            | 1.10 g/cc   | 1.10 g/cc   | ASTM D792 |
| Linear Mold Shrinkage, Flow | 0.017 cm/cm | 0.017 in/in | ASTM D955 |

| Mechanical Properties   | Metric                            | English                               | Comments  |
|-------------------------|-----------------------------------|---------------------------------------|-----------|
| Tensile Strength, Yield | 62.1 MPa                          | 9000 psi                              | ASTM D638 |
| Elongation at Yield     | 100 %                             | 100 %                                 | ASTM D638 |
| Flexural Yield Strength | 89.6 MPa                          | 13000 psi                             | ASTM D790 |
| Flexural Modulus        | 2.28 GPa                          | 330 ksi                               | ASTM D790 |
| Izod Impact, Notched    | 1.60 J/cm<br>@Temperature 22.8 °C | 3.00 ft-lb/in<br>@Temperature 73.0 °F | ASTM D256 |

| Thermal Properties                          | Metric  | English | Comments  |
|---|---------|---------|-----------|
| Deflection Temperature at 0.46 MPa (66 psi) | 171 °C  | 340 °F  | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 60.0 °C | 140 °F  | ASTM D648 |

| Processing Properties | Metric                             | English                           | Comments                                     |
|-----------------------|------------------------------------|-----------------------------------|--|
| Melt Temperature      | 254 - 271 °C                       | 490 - 520 °F                      |  |
| Mold Temperature      | 51.7 - 79.4 °C                     | 125 - 175 °F                      |  |
| Dry Time              | 2 - 4 hour<br>@Temperature 79.4 °C | 2 - 4 hour<br>@Temperature 175 °F | to ensure moisture content is less than 0.2% |
| Injection Pressure    | 4.96 - 8.27 MPa                    | 720 - 1200 psi                    | Secondary                                    |
|                       | 8.27 - 13.8 MPa                    | 1200 - 2000 psi                   | Initial                                      |
| Back Pressure         | 0.345 - 1.72 MPa                   | 50.0 - 250 psi                    |  |

| Shot Size<br>Processing Properties | 30 - 80 %<br>Metric | 30 - 80 %<br>English | Comments |
|------------------------------------|---------------------|----------------------|----------|
| Screw Speed                        | 20 - 100 rpm        | 20 - 100 rpm         |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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