

## Clariant Renol 612G20-L Nylon 612, 20% Glass Fiber Reinforced, Lubricated

Category : Polymer , Thermoplastic , Nylon , Nylon 612 , Nylon 612, Glass Fiber Filler

**Material Notes:**

Data provided by Clariant Masterbatches

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Clariant-Renol-612G20-L-Nylon-612-20-Glass-Fiber-Reinforced-Lubricated.php](http://www.lookpolymers.com/polymer_Clariant-Renol-612G20-L-Nylon-612-20-Glass-Fiber-Reinforced-Lubricated.php)

| Physical Properties   | Metric                | English               | Comments   |
|-----------------------|-----------------------|-----------------------|------------|
| Specific Gravity      | 1.19 g/cc             | 1.19 g/cc             | ASTM D790  |
| Filler Content        | 20 %                  | 20 %                  | ASTM D2584 |
| Linear Mold Shrinkage | 0.0060 - 0.0070 cm/cm | 0.0060 - 0.0070 in/in | ASTM D955  |

| Mechanical Properties   | Metric                             | English                               | Comments  |
|-------------------------|------------------------------------|---------------------------------------|-----------|
| Tensile Strength, Yield | 103 MPa                            | 15000 psi                             | ASTM D638 |
| Elongation at Yield     | 3.0 %                              | 3.0 %                                 | ASTM D638 |
| Flexural Yield Strength | 179 MPa                            | 26000 psi                             | ASTM D790 |
| Flexural Modulus        | 5.17 GPa                           | 750 ksi                               | ASTM D790 |
| Izod Impact, Notched    | 0.587 J/cm<br>@Temperature 22.8 °C | 1.10 ft-lb/in<br>@Temperature 73.0 °F | ASTM D256 |

| Thermal Properties                          | Metric | English | Comments  |
|---|--------|---------|-----------|
| Deflection Temperature at 0.46 MPa (66 psi) | 208 °C | 406 °F  | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 189 °C | 372 °F  | ASTM D648 |

| Processing Properties | Metric                             | English                           | Comments                                   |
|-----------------------|------------------------------------|-----------------------------------|--|
| Melt Temperature      | 243 - 271 °C                       | 470 - 520 °F                      |  |
| Mold Temperature      | 79.4 - 107 °C                      | 175 - 225 °F                      |  |
| Dry Time              | 2 - 4 hour<br>@Temperature 79.4 °C | 2 - 4 hour<br>@Temperature 175 °F | to ensure moisture level 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<br>Processing Properties | 0.172 - 0.517 MPa<br>Metric | 25.0 - 75.0 psi<br>English | Comments |
|--|-----------------------------|----------------------------|----------|
| Shot Size                              | 30 - 80 %                   | 30 - 80 %                  |          |
| Screw Speed                            | 20 - 100 rpm                | 20 - 100 rpm               |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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