

## Clariant Renol CAB1000 Cellulose Acetate Butyrate

Category : Polymer , Renewable/Recycled Polymer , Thermoplastic , Cellulosic , Cellulose Acetate Butyrate, Molded

### Material Notes:

Data provided by Clariant Masterbatches

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Clariant-Renol-CAB1000-Cellulose-Acetate-Butyrate.php](http://www.lookpolymers.com/polymer_Clariant-Renol-CAB1000-Cellulose-Acetate-Butyrate.php)

| Physical Properties         | Metric       | English      | Comments  |
|-----------------------------|--------------|--------------|-----------|
| Specific Gravity            | 1.20 g/cc    | 1.20 g/cc    | ASTM D792 |
| Linear Mold Shrinkage, Flow | 0.0040 cm/cm | 0.0040 in/in | ASTM D955 |

| Mechanical Properties   | Metric                            | English                               | Comments  |
|-------------------------|-----------------------------------|---------------------------------------|-----------|
| Tensile Strength, Yield | 43.4 MPa                          | 6300 psi                              | ASTM D638 |
| Elongation at Yield     | 40 %                              | 40 %                                  | ASTM D638 |
| Flexural Yield Strength | 49.0 MPa                          | 7100 psi                              | ASTM D790 |
| Flexural Modulus        | 1.59 GPa                          | 230 ksi                               | ASTM D790 |
| Izod Impact, Notched    | 2.14 J/cm<br>@Temperature 22.8 °C | 4.00 ft-lb/in<br>@Temperature 73.0 °F | ASTM D256 |

| Thermal Properties                          | Metric  | English | Comments  |
|---------------------------------------------|---------|---------|-----------|
| Deflection Temperature at 1.8 MPa (264 psi) | 77.2 °C | 171 °F  | ASTM D648 |

| Processing Properties | Metric                                    | English                                 | Comments  |
|-----------------------|-------------------------------------------|-----------------------------------------|-----------|
| Melt Temperature      | 188 - 232 °C                              | 370 - 450 °F                            |           |
| Mold Temperature      | 51.7 - 79.4 °C                            | 125 - 175 °F                            |           |
| Dry Time              | 2 - 4 hour<br>@Temperature 71.1 - 82.2 °C | 2 - 4 hour<br>@Temperature 160 - 180 °F |           |
| 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             | 30 - 80 %                                 | 30 - 80 %                               |           |

| Screw Speed<br>Processing Properties | 20 - 100 rpm<br>Metric | 20 - 100 rpm<br>English | Comments |
|--------------------------------------|------------------------|-------------------------|----------|
|--------------------------------------|------------------------|-------------------------|----------|

## Contact Songhan Plastic Technology Co.,Ltd.

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