

## Clariant Renol PPA1100G60 Polyphthalamide, 60% Glass Fiber

Category : Polymer , Thermoplastic , Polyphthalamide (PPA)

### Material Notes:

Data provided by Clariant Masterbatches

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Clariant-Renol-PPA1100G60-Polyphthalamide-60-Glass-Fiber.php](http://www.lookpolymers.com/polymer_Clariant-Renol-PPA1100G60-Polyphthalamide-60-Glass-Fiber.php)

| Physical Properties         | Metric                | English               | Comments   |
|-----------------------------|-----------------------|-----------------------|------------|
| Specific Gravity            | 1.76 g/cc             | 1.76 g/cc             | ASTM D792  |
| Filler Content              | 60 %                  | 60 %                  | ASTM D2584 |
| Linear Mold Shrinkage, Flow | 0.0010 - 0.0030 cm/cm | 0.0010 - 0.0030 in/in | ASTM D955  |

| Mechanical Properties   | Metric                            | English                               | Comments  |
|-------------------------|-----------------------------------|---------------------------------------|-----------|
| Tensile Strength, Yield | 255 MPa                           | 37000 psi                             | ASTM D638 |
| Elongation at Break     | 1.0 - 2.0 %                       | 1.0 - 2.0 %                           | ASTM D638 |
| Flexural Yield Strength | 345 MPa                           | 50000 psi                             | ASTM D790 |
| Flexural Modulus        | 20.7 GPa                          | 3000 ksi                              | ASTM D790 |
| Izod Impact, Notched    | 1.33 J/cm<br>@Temperature 22.8 °C | 2.50 ft-lb/in<br>@Temperature 73.0 °F | ASTM D256 |

| Thermal Properties                          | Metric | English | Comments  |
|---------------------------------------------|--------|---------|-----------|
| Deflection Temperature at 1.8 MPa (264 psi) | 282 °C | 540 °F  | ASTM D648 |

| Processing Properties | Metric                         | English                       | Comments                                      |
|-----------------------|--------------------------------|-------------------------------|-----------------------------------------------|
| Melt Temperature      | 302 - 329 °C                   | 575 - 625 °F                  |                                               |
| Mold Temperature      | 135 - 163 °C                   | 275 - 325 °F                  |                                               |
| Dry Time              | 6 hour<br>@Temperature 79.4 °C | 6 hour<br>@Temperature 175 °F | to ensure moisture content is less than 0.05% |
| Injection Pressure    | 41.4 - 74.5 MPa                | 6000 - 10800 psi              | Secondary                                     |
|                       | 68.9 - 124 MPa                 | 10000 - 18000 psi             | Initial                                       |
| Back Pressure         | 0.345 - 1.72 MPa               | 50.0 - 250 psi                |                                               |
| Shot Size             | 30 - 80 %                      | 30 - 80 %                     |                                               |

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

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China