

## Clariant PA123G30 Nylon 66, 30% Glass Fiber, Impact Modified, Heat Stabilized

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 30% Glass Fiber Filled , Nylon 66, Heat Stabilized

### Material Notes:

Data provided by Clariant Masterbatches

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Clariant-PA123G30-Nylon-66-30-Glass-Fiber-Impact-Modified-Heat-Stabilized.php](http://www.lookpolymers.com/polymer_Clariant-PA123G30-Nylon-66-30-Glass-Fiber-Impact-Modified-Heat-Stabilized.php)

| Physical Properties         | Metric       | English      | Comments  |
|-----------------------------|--------------|--------------|-----------|
| Specific Gravity            | 1.37 g/cc    | 1.37 g/cc    | ASTM D792 |
| Linear Mold Shrinkage, Flow | 0.0020 cm/cm | 0.0020 in/in | ASTM D955 |

| Mechanical Properties   | Metric                            | English                               | Comments  |
|-------------------------|-----------------------------------|---------------------------------------|-----------|
| Tensile Strength, Yield | 124 MPa                           | 18000 psi                             | ASTM D638 |
| Elongation at Yield     | 4.0 %                             | 4.0 %                                 | ASTM D638 |
| Flexural Yield Strength | 172 MPa                           | 25000 psi                             | ASTM D790 |
| Flexural Modulus        | 5.86 GPa                          | 850 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 0.46 MPa (66 psi) | 250 °C | 482 °F  | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 245 °C | 473 °F  | ASTM D648 |

| Processing Properties | Metric                             | English                           | Comments                                     |
|-----------------------|------------------------------------|-----------------------------------|----------------------------------------------|
| Melt Temperature      | 271 - 299 °C                       | 520 - 570 °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 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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