

Clariant Renol PA101F/ST801 Nylon 66, Impact Modified, Lubricated

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-PA101FST801-Nylon-66-Impact-Modified-Lubricated.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|-------------|-------------|-----------|
| Specific Gravity | 1.13 g/cc | 1.13 g/cc | ASTM D792 |
| Linear Mold Shrinkage, Flow | 0.018 cm/cm | 0.018 in/in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|------------------------------------|---------------------------------------|-----------|
| Tensile Strength, Yield | 89.6 MPa | 13000 psi | ASTM D638 |
| Elongation at Break | 30 % | 30 % | ASTM D638 |
| Flexural Yield Strength | 124 MPa | 18000 psi | ASTM D790 |
| Flexural Modulus | 1.93 GPa | 280 ksi | ASTM D790 |
| Izod Impact, Notched | 0.534 J/cm @Temperature 22.8 °C | 1.00 ft-lb/in @Temperature 73.0 °F | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|---------|---------|-----------|
| Deflection Temperature at 0.46 MPa (66 psi) | 185 °C | 365 °F | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 70.0 °C | 158 °F | ASTM D648 |

| Processing Properties | Metric | English | Comments |
|-----------------------|------------------------------------|-----------------------------------|--|
| Melt Temperature | 266 - 288 °C | 510 - 550 °F | |
| Mold Temperature | 65.6 - 93.3 °C | 150 - 200 °F | |
| Dry Time | 2 - 4 hour @Temperature 79.4 °C | 2 - 4 hour @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 | 0.000 - 0.345 MPa | 0.000 - 50.0 psi | |

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

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