

Clariant Renol PA133GN-109 Nylon 66, High Impact, Heat Stabilized, Lubricated

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Heat Stabilized , Nylon 66, Impact Grade

Material Notes:

Data provided by Clariant Masterbatches

Order this product through the following link:

http://www.lookpolymers.com/polymer_Clariant-Renol-PA133GN-109-Nylon-66-High-Impact-Heat-Stabilized-Lubricated.php

| Physical Properties | Metric | English | Comments |
|-----------------------|-------------|-------------|-----------|
| Specific Gravity | 1.08 g/cc | 1.08 g/cc | ASTM D792 |
| Linear Mold Shrinkage | 0.020 cm/cm | 0.020 in/in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|-----------------------------------|---------------------------------------|-----------|
| Tensile Strength, Yield | 44.8 MPa | 6500 psi | ASTM D638 |
| Flexural Yield Strength | 66.2 MPa | 9600 psi | ASTM D790 |
| Flexural Modulus | 1.72 GPa | 250 ksi | ASTM D790 |
| Izod Impact, Notched | 7.74 J/cm @Temperature 22.8 °C | 14.5 ft-lb/in @Temperature 73.0 °F | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|---------|---------|-----------|
| Deflection Temperature at 0.46 MPa (66 psi) | 215 °C | 419 °F | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 71.0 °C | 160 °F | ASTM D648 |

| Processing Properties | Metric | English | Comments |
|-----------------------|------------------|-----------------|-----------|
| Melt Temperature | 266 - 293 °C | 510 - 560 °F | |
| Mold Temperature | 65.6 - 93.3 °C | 150 - 200 °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 | 20 - 100 rpm | 20 - 100 rpm | |

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