

PRL NY66-G20

Polyamide 66
Polymer Resources Ltd.

Message:

PRL NY66-G20 is a Polyamide 66 (Nylon 66) product filled with 20% glass fiber. It can be processed by injection molding and is available in North America.

Characteristics include:

RoHS Compliant

Heat Resistant

Lubricated

| General Information | | | |
|------------------------------------|----------------------------------|-------------------|-------------|
| Filler / Reinforcement | Glass Fiber,20% Filler by Weight | | |
| Additive | Lubricant | | |
| Features | High Heat Resistance | | |
| | Lubricated | | |
| RoHS Compliance | RoHS Compliant | | |
| Forms | Pellets | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.32 | g/cm ³ | ASTM D792 |
| Molding Shrinkage - Flow (3.18 mm) | 0.30 to 0.50 | % | ASTM D955 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength | | | ASTM D638 |
| Yield, 3.18 mm | 145 | MPa | |
| Break, 3.18 mm | 145 | MPa | |
| Flexural Modulus (3.18 mm) | 7580 | MPa | ASTM D790 |
| Flexural Strength (3.18 mm) | 228 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (3.18 mm) | 80 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load | | | ASTM D648 |
| 0.45 MPa, Unannealed, 3.18 mm | 257 | °C | |
| 1.8 MPa, Unannealed, 3.18 mm | 246 | °C | |
| Injection | Nominal Value | Unit | |
| Drying Temperature | 73.9 to 85.0 | °C | |
| Drying Time | 3.0 to 4.0 | hr | |
| Drying Time, Maximum | 8.0 | hr | |
| Rear Temperature | 271 to 282 | °C | |
| Middle Temperature | 277 to 288 | °C | |
| Front Temperature | 293 to 304 | °C | |

| | | |
|------------------------|-------------|----|
| Processing (Melt) Temp | 288 to 299 | °C |
| Mold Temperature | 65.6 to 104 | °C |

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