# PRL NY66-IM1-(color)H

Polyamide 66

Polymer Resources Ltd.

## Message:

PRL NY66-IM1-(color)H is a Polyamide 66 (Nylon 66) product. It can be processed by injection molding and is available in North America.
Characteristics include:
RoHS Compliant
Heat Stabilizer
Impact Modified
Lubricated

| General Information | | | |
|---|---|---|---|
| Additive | Heat Stabilizer<br>Impact Modifier<br>Lubricant | | |
| Features | Heat Stabilized<br>Impact Modified<br>Lubricated | | |
| RoHS Compliance | RoHS Compliant | | |
| Forms | Pellets | | |
| Processing Method | Injection Molding | | |
| **Physical** | **Nominal Value** | **Unit** | **Test Method** |
| Specific Gravity | 1.09 | g/cm³ | ASTM D792 |
| Molding Shrinkage - Flow (3.18 mm) | 1.4 to 2.0 | % | ASTM D955 |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Strength | | | ASTM D638 |
| Yield, 3.18 mm | 62.1 | MPa | |
| Break, 3.18 mm | 60.0 | MPa | |
| Flexural Modulus (3.18 mm) | 1930 | MPa | ASTM D790 |
| Flexural Strength (3.18 mm) | 82.7 | MPa | ASTM D790 |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Notched Izod Impact (23°C, 3.18 mm) | 160 | J/m | ASTM D256 |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Deflection Temperature Under Load | | | ASTM D648 |
| 0.45 MPa, Unannealed, 3.18 mm | 227 | °C | |
| 1.8 MPa, Unannealed, 3.18 mm | 73.9 | °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 | 266 to 277 | °C |
| Middle Temperature | 271 to 282 | °C |
| Front Temperature | 277 to 288 | °C |
| Processing (Melt) Temp | 277 to 293 | °C |
| Mold Temperature | 65.6 to 93.3 | °C |



## Recommended distributors for this material

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