



Wednesday, August 30, 2023

PRL NY66-G13-(color)H  
Polymer Resources Ltd. - Polyamide 66

Units English ▼

|                                                                                                                                                                    |                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| Action                                                                                                                                                             | Legend ( <a href="#">Open</a> ) |
|   |                                 |

General Information

|                        |                                     |
|------------------------|-------------------------------------|
| General                |                                     |
| Material Status        | • Commercial: Active                |
| Availability           | • North America                     |
| Filler / Reinforcement | • Glass Fiber, 13% Filler by Weight |
| Additive               | • Heat Stabilizer • Lubricant       |
| Features               | • Heat Stabilized • Lubricated      |
| RoHS Compliance        | • RoHS Compliant                    |
| Forms                  | • Pellets                           |
| Processing Method      | • Injection Molding                 |

ASTM & ISO Properties <sup>1</sup>

|                                                                   |                  |          |             |
|-------------------------------------------------------------------|------------------|----------|-------------|
| Physical                                                          | Nominal Value    | Unit     | Test Method |
| Density / Specific Gravity                                        | 1.22             |          | ASTM D792   |
| Molding Shrinkage - Flow                                          | 4.0E-3 to 6.0E-3 | in/in    | ASTM D955   |
| Mechanical                                                        | Nominal Value    | Unit     | Test Method |
| Tensile Strength (Yield, 0.125 in)                                | 16000            | psi      | ASTM D638   |
| Tensile Strength (Break, 0.125 in)                                | 16000            | psi      | ASTM D638   |
| Flexural Modulus (0.125 in)                                       | 685000           | psi      | ASTM D790   |
| Flexural Strength (0.125 in)                                      | 23000            | psi      | ASTM D790   |
| Impact                                                            | Nominal Value    | Unit     | Test Method |
| Notched Izod Impact (0.125 in)                                    | 1.2              | ft-lb/in | ASTM D256   |
| Thermal                                                           | Nominal Value    | Unit     | Test Method |
| Deflection Temperature Under Load (66 psi, Unannealed, 0.125 in)  | 480              | °F       | ASTM D648   |
| Deflection Temperature Under Load (264 psi, Unannealed, 0.125 in) | 465              | °F       | ASTM D648   |

Processing Information

|                        |               |      |
|------------------------|---------------|------|
| Injection              | Nominal Value | Unit |
| Drying Temperature     | 165 to 185    | °F   |
| Drying Time            | 3.0 to 4.0    | hr   |
| Drying Time, Maximum   | 8.0           | hr   |
| Rear Temperature       | 520 to 540    | °F   |
| Middle Temperature     | 530 to 550    | °F   |
| Front Temperature      | 560 to 580    | °F   |
| Processing (Melt) Temp | 550 to 570    | °F   |
| Mold Temperature       | 150 to 220    | °F   |

Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

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