

**PRL NY66-EX1**Units  English **Polymer Resources Ltd. - Polyamide 66****Action****Legend (Open)****General Information****General**

|                   |  |
|-------------------|--|
| Material Status   | <ul style="list-style-type: none"> <li>Commercial: Active</li> </ul> |
| Availability      | <ul style="list-style-type: none"> <li>North America</li> </ul>      |
| Features          | <ul style="list-style-type: none"> <li>High Viscosity</li> </ul>     |
| RoHS Compliance   | <ul style="list-style-type: none"> <li>RoHS Compliant</li> </ul>     |
| Forms             | <ul style="list-style-type: none"> <li>Pellets</li> </ul>            |
| Processing Method | <ul style="list-style-type: none"> <li>Extrusion</li> </ul>          |

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

|   | <b>Nominal Value</b> | <b>Unit</b> | <b>Test Method</b> |
|---|----------------------|-------------|--------------------|
| Density / Specific Gravity  | 1.14                 |             | ASTM D792          |
| Molding Shrinkage - Flow  | 0.012 to 0.018       | in/in       | ASTM D955          |
| Mechanical  | <b>Nominal Value</b> | <b>Unit</b> | <b>Test Method</b> |
| Tensile Strength (Yield, 0.125 in)                                | 12500                | psi         | ASTM D638          |
| Tensile Strength (Break, 0.125 in)                                | 12500                | psi         | ASTM D638          |
| Flexural Modulus (0.125 in)                                       | 475000               | psi         | ASTM D790          |
| Flexural Strength (0.125 in)                                      | 17500                | psi         | ASTM D790          |
| Impact  | <b>Nominal Value</b> | <b>Unit</b> | <b>Test Method</b> |
| Notched Izod Impact (0.125 in)                                    | 1.5                  | ft·lb/in    | ASTM D256          |
| Thermal   | <b>Nominal Value</b> | <b>Unit</b> | <b>Test Method</b> |
| Deflection Temperature Under Load (66 psi, Unannealed, 0.125 in)  | 445                  | °F          | ASTM D648          |
| Deflection Temperature Under Load (264 psi, Unannealed, 0.125 in) | 190                  | °F          | ASTM D648          |

**Processing Information**

|                       | <b>Nominal Value</b> | <b>Unit</b> |
|-----------------------|----------------------|-------------|
| Drying Temperature    | 165 to 185           | °F          |
| Drying Time           | 3.0 to 4.0           | hr          |
| Cylinder Zone 1 Temp. | 510 to 520           | °F          |
| Cylinder Zone 2 Temp. | 520 to 530           | °F          |
| Cylinder Zone 3 Temp. | 530 to 540           | °F          |
| Melt Temperature      | 530 to 580           | °F          |
| Die Temperature       | 550                  | °F          |

**Notes**

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

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