

**PRL NY6-M40****Polymer Resources Ltd. - Polyamide 6**Units **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>
Filler / Reinforcement	<ul style="list-style-type: none"> <li>Mineral, 40% Filler by Weight</li> </ul>
Additive	<ul style="list-style-type: none"> <li>Lubricant</li> </ul>
Features	<ul style="list-style-type: none"> <li>Lubricated</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>Injection Molding</li> </ul>

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

<b>Physical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Density / Specific Gravity	1.49		ASTM D792
Molding Shrinkage - Flow (0.125 in)	7.0E-3 to 0.010	in/in	ASTM D955
<b>Mechanical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Tensile Strength (Yield, 0.125 in)	13000	psi	ASTM D638
Tensile Strength (Break, 0.125 in)	13000	psi	ASTM D638
Flexural Modulus (0.125 in)	850000	psi	ASTM D790
Flexural Strength (0.125 in)	18500	psi	ASTM D790
<b>Impact</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Notched Izod Impact (73°F, 0.125 in)	1.1	ft-lb/in	ASTM D256
<b>Thermal</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Deflection Temperature Under Load (66 psi, Unannealed, 0.125 in)	330	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed, 0.125 in)	248	°F	ASTM D648

**Processing Information**

<b>Injection</b>	<b>Nominal Value</b>	<b>Unit</b>
Drying Temperature	165 to 185	°F
Drying Time	3.0 to 4.0	hr
Drying Time, Maximum	8.0	hr
Rear Temperature	450 to 480	°F
Middle Temperature	470 to 500	°F
Front Temperature	480 to 515	°F
Processing (Melt) Temp	480 to 520	°F
Mold Temperature	180 to 220	°F

**Notes**

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

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