

PRL NY6-IM1**Polymer Resources Ltd. - Polyamide 6**Units **Action****Legend (Open)****General Information****General**

| | |
|-------------------|---|
| Material Status | <ul style="list-style-type: none"> Commercial: Active |
| Availability | <ul style="list-style-type: none"> North America |
| Additive | <ul style="list-style-type: none"> Impact Modifier |
| Features | <ul style="list-style-type: none"> Impact Modified Medium Impact Resistance |
| RoHS Compliance | <ul style="list-style-type: none"> RoHS Compliant |
| Forms | <ul style="list-style-type: none"> Pellets |
| Processing Method | <ul style="list-style-type: none"> Injection Molding |

ASTM & ISO Properties ¹

| | Nominal Value | Unit | Test Method |
|---|----------------------|-------------|--------------------|
| Density / Specific Gravity | 1.09 | | ASTM D792 |
| Molding Shrinkage - Flow (0.125 in) | 0.016 to 0.020 | in/in | ASTM D955 |
| | Nominal Value | Unit | Test Method |
| Mechanical | | | |
| Tensile Strength (Yield, 0.125 in) | 9000 | psi | ASTM D638 |
| Tensile Strength (Break, 0.125 in) | 9000 | psi | ASTM D638 |
| Flexural Modulus (0.125 in) | 300000 | psi | ASTM D790 |
| Flexural Strength (0.125 in) | 11000 | psi | ASTM D790 |
| | Nominal Value | Unit | Test Method |
| Impact | | | |
| Notched Izod Impact (73°F, 0.125 in) | 3.0 | ft-lb/in | ASTM D256 |
| Gardner Impact (0.125 in) | 320 | in-lb | ASTM D3029 |
| | Nominal Value | Unit | Test Method |
| Thermal | | | |
| Deflection Temperature Under Load (66 psi, Unannealed, 0.125 in) | 335 | °F | ASTM D648 |
| Deflection Temperature Under Load (264 psi, Unannealed, 0.125 in) | 145 | °F | ASTM D648 |

Processing Information

| | Nominal Value | Unit |
|------------------------|----------------------|-------------|
| Injection | | |
| Drying Temperature | 165 to 185 | °F |
| Drying Time | 3.0 to 4.0 | hr |
| Drying Time, Maximum | 8.0 | hr |
| Rear Temperature | 430 to 475 | °F |
| Middle Temperature | 460 to 490 | °F |
| Front Temperature | 470 to 500 | °F |
| Processing (Melt) Temp | 460 to 515 | °F |
| Mold Temperature | 150 to 180 | °F |

Notes

¹ Typical properties: these are not to be construed as specifications.

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