

**PRL NY6-GP2-(color)H**

PA6

Polymer Resources, Ltd.

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Mold Shrinkage, MD	<b>0.01</b>	mm/mm	ASTM D 955

<b>Mechanical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Tensile Strength at Yield	<b>89.6</b>	MPa	ASTM D 638
Tensile Strength at Break	<b>89.6</b>	MPa	ASTM D 638
Flexural Modulus	<b>3103</b>	MPa	ASTM D 790
Flexural Strength	<b>108</b>	MPa	ASTM D 790
Izod Impact notched, 1/8 in	<b>53.4</b>	J/m	ASTM D 256

<b>Thermal properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
UL 94 Flame rating	<b>V-2</b>	-	UL 94
Thickness tested	<b>0.8</b>	mm	-
DTUL @ 66 psi	<b>191</b>	°C	ASTM D 648
DTUL @ 264 psi	<b>73.9</b>	°C	ASTM D 648

<b>Electrical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Comparative tracking index	<b>600</b>	-	IEC 60112
<b>ASTM Data</b>			
Dielectric Strength, Short Time	<b>29.9</b>	kV/mm	ASTM D 149
Volume Resistivity	<b>1E14</b>	Ohm*cm	ASTM D 257

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Density	<b>1130</b>	kg/m <sup>3</sup>	ASTM D 792

<b>Processing Recommendation Injection Molding</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Pre-drying - Temperature	<b>73.9 - 85</b>	°C	-
Pre-drying - Time	<b>3 - 4</b>	h	-
Melt temperature	<b>238 - 279</b>	°C	-
Mold temperature	<b>79.4 - 93.3</b>	°C	-
Zone 1	<b>221 - 246</b>	°C	-
Zone 2	<b>238 - 254</b>	°C	-
Zone 3	<b>243 - 260</b>	°C	-

**Characteristics****Processing**

Injection Molding

**Delivery form**

Pellets

**Special Characteristics**

Heat stabilized or stable to heat

**Features**

Nucleated

**Applications**

General Purpose

**Regional Availability**

North America