

**PRL PC-GP1-(color)-LF****Polymer Resources Ltd. - Polycarbonate**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>		
Features	<ul style="list-style-type: none"> <li>Food Contact Acceptable</li> </ul>	<ul style="list-style-type: none"> <li>General Purpose</li> </ul>	<ul style="list-style-type: none"> <li>Low Flow</li> </ul>
Agency Ratings	<ul style="list-style-type: none"> <li>FDA Food Contact</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>**

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.20		ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	3.0 to 4.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.125 in)	5.0E-3 to 7.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 0.125 in)	9000	psi	ASTM D638
Tensile Strength (Break, 0.125 in)	10500	psi	ASTM D638
Tensile Elongation (Yield, 0.125 in)	7.0	%	ASTM D638
Tensile Elongation (Break, 0.125 in)	140	%	ASTM D638
Flexural Modulus (0.125 in)	350000	psi	ASTM D790
Flexural Strength (0.125 in)	14000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	18	ft-lb/in	ASTM D256
Gardner Impact	> 320	in-lb	ASTM D3029
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ASTM D785
M-Scale	70		
R-Scale	118		
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	285	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	275	°F	ASTM D648
Vicat Softening Temperature	310	°F	ASTM D1525 <sup>2</sup>
Optical	Nominal Value	Unit	Test Method
Light Transmittance (100.0 mil)	88.0	%	ASTM D1003
Haze (100.0 mil)	1.00	%	ASTM D1003

**Processing Information**

Injection	Nominal Value	Unit
Drying Temperature	245 to 255	°F
Drying Time	3.0 to 4.0	hr
Drying Time, Maximum	8.0	hr
Rear Temperature	560 to 600	°F
Middle Temperature	580 to 620	°F
Front Temperature	600 to 640	°F
Processing (Melt) Temp	600 to 650	°F
Mold Temperature	180 to 240	°F

**Notes**

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

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