

**PRL PC-UV4****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>		
Additive	<ul style="list-style-type: none"> <li>UV Stabilizer</li> </ul>		
Features	<ul style="list-style-type: none"> <li>General Purpose</li> <li>High Flow</li> </ul>	<ul style="list-style-type: none"> <li>High Impact Resistance</li> <li>Medium Heat Resistance</li> </ul>	<ul style="list-style-type: none"> <li>Self Extinguishing</li> <li>UV Resistant</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>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Physical			
Density / Specific Gravity	1.20		ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	18 to 30	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.125 in)	5.0E-3 to 7.0E-3	in/in	ASTM D955
Molding Shrinkage - Across Flow (0.125 in)	5.0E-3 to 7.0E-3	in/in	ASTM D955
Mechanical			
Tensile Strength (Yield, 0.125 in)	9000	psi	ASTM D638
Tensile Strength (Break, 0.125 in)	9500	psi	ASTM D638
Tensile Elongation (Yield, 0.125 in)	6.0 %		ASTM D638
Tensile Elongation (Break, 0.125 in)	120 %		ASTM D638
Flexural Modulus (0.125 in)	330000	psi	ASTM D790
Flexural Strength (0.125 in)	13400	psi	ASTM D790
Impact			
Notched Izod Impact (73°F, 0.125 in)	12	ft-lb/in	ASTM D256
Gardner Impact (0.125 in)	> 320	in-lb	ASTM D3029
Hardness			
Rockwell Hardness			ASTM D785
M-Scale	70		
R-Scale	118		
Thermal			
Deflection Temperature Under Load (66 psi, Unannealed, 0.125 in)	265	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed, 0.125 in)	255	°F	ASTM D648
Vicat Softening Temperature	285	°F	ASTM D1525 <sup>2</sup>
Optical			
Light Transmittance (100.0 mil)	88.0 %		ASTM D1003
Haze (100.0 mil)	1.00 %		ASTM D1003

**Processing Information**

	<b>Nominal Value</b>	<b>Unit</b>
Injection		
Drying Temperature	250 to 265	°F
Drying Time	3.0 to 4.0	hr
Drying Time, Maximum	8.0	hr
Rear Temperature	480 to 520	°F
Middle Temperature	500 to 540	°F
Front Temperature	520 to 560	°F
Processing (Melt) Temp	510 to 560	°F
Mold Temperature	150 to 200	°F

**Notes**

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

2 Rate B (120°C/h), Loading 2 (50 N)

---

The information contained herein is based on our best knowledge and we believe it to be true and accurate. Please read all statements and recommendations in conjunction with our conditions of sale, which apply to all goods sold by us. Statements concerning possible uses of materials described herein are not to be construed as recommendations for use of such materials in the infringement of any patent or copyright. Lot data is available upon request. The user of this material must make their own evaluations to determine the suitability of this material from a technical as well as health, safety and environmental standpoint. This data is not intended for specification purposes.