

**PRL PC-GP1-D**

PC

Polymer Resources, Ltd.

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Melt Flow Index, MFI	7.5	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	1.2	kg	-
Mold Shrinkage, MD	0.006	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	62.1	MPa	ASTM D 638
Tensile Strength at Break	72.4	MPa	ASTM D 638
Elongation at Yield	7	%	ASTM D 638
Elongation at Break	130	%	ASTM D 638
Flexural Modulus	2310	MPa	ASTM D 790
Flexural Strength	96.5	MPa	ASTM D 790
Rockwell Hardness	M70	-	ASTM D 785
Izod Impact notched, 1/8 in	907	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	V-2	-	UL 94
Thickness tested	1.5	mm	-
DTUL @ 66 psi	138	°C	ASTM D 648
DTUL @ 264 psi	132	°C	ASTM D 648
Vicat Temperature	154	°C	ASTM D 1525

<b>Electrical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Comparative tracking index	325	-	IEC 60112
<b>ASTM Data</b>			
Dielectric Strength, Short Time	28	kV/mm	ASTM D 149
Volume Resistivity	1E15	Ohm*cm	ASTM D 257
Arc Resistance	150	s	ASTM D 495

<b>Optical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Haze	1	%	ASTM D 1003
Light Transmittance	88	%	ASTM D 1003

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Density	1200	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	118 - 124	°C	-
Pre-drying - Time	3 - 4	h	-
Melt temperature	316 - 343	°C	-
Mold temperature	82.2 - 116	°C	-
Zone 1	288 - 310	°C	-
Zone 2	299 - 321	°C	-
Zone 3	310 - 332	°C	-

**Characteristics****Processing**

Injection Molding

**Applications**

General Purpose

**PRL PC-GP1-D**

PC

Polymer Resources, Ltd.

**Delivery form**

Pellets

**Regional Availability**

North America

**Special Characteristics**

High impact or impact modified