

# Polymer Resources



Classic® Engineering Plastic Compounds

Wednesday, August 30, 2023

## PRL PC/TP-FR3

Polymer Resources Ltd. - Polycarbonate + Polyester

Units English

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	Flame Retardant	Impact Modifier	
Features	<ul style="list-style-type: none"> <li>Chemical Resistant</li> <li>Flame Retardant</li> <li>Good Weather Resistance</li> </ul>	<ul style="list-style-type: none"> <li>Impact Modified</li> <li>Low Temperature Impact Resistance</li> <li>Self Extinguishing</li> </ul>	<ul style="list-style-type: none"> <li>Ultra High Impact Resistance</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	1.29		ASTM D792
Melt Mass-Flow Rate (MFR) (265°C/2.16 kg)	12 to 20	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.011 to 0.013	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 0.125 in)	7100	psi	ASTM D638
Tensile Strength (Break, 0.125 in)	6200	psi	ASTM D638
Flexural Modulus (0.125 in)	300000	psi	ASTM D790
Flexural Strength (0.125 in)	11000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	11	ft·lb/in	ASTM D256
Gardner Impact (0.125 in)	320	in·lb	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed, 0.125 in)	210	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed, 0.125 in)	180	°F	ASTM D648

### Processing Information

Injection	Nominal Value	Unit
Drying Temperature	230 to 240	°F
Drying Time	4.0 to 6.0	hr
Drying Time, Maximum	8.0	hr
Rear Temperature	480 to 520	°F
Middle Temperature	490 to 530	°F
Front Temperature	500 to 540	°F
Processing (Melt) Temp	475 to 525	°F
Mold Temperature	150 to 190	°F

### Notes

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

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