



Wednesday, August 30, 2023

PRL PC/ASA-GP2

Polymer Resources Ltd. - Polycarbonate + ASA

Units English ▼

Action

Legend [\(Open\)](#)

General Information

General			
Material Status	• Preliminary Data		
Availability	• North America		
Features	• General Purpose	• Medium Flow	• Medium Impact Resistance
RoHS Compliance	• RoHS Compliant		
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.14		ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	8.0 to 18	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)	8500	psi	ASTM D638
Tensile Strength (Break, 0.125 in)	7500	psi	ASTM D638
Flexural Modulus (0.125 in)	377000	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)	8.0	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)	215	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed, 0.125 in)	190	°F	ASTM D648

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	190 to 210	°F
Drying Time	3.0 to 4.0	hr
Drying Time, Maximum	8.0	hr
Rear Temperature	450 to 470	°F
Middle Temperature	470 to 490	°F
Front Temperature	490 to 520	°F
Processing (Melt) Temp	490 to 520	°F
Mold Temperature	130 to 160	°F

Notes

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

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