



Wednesday, August 30, 2023

PRL PC/TP-GP3-G30Units English ▼Polymer Resources Ltd. - *Polycarbonate + Polyester***Action****Legend** ([Open](#))**General Information****General**

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Additive	• Impact Modifier
Features	• Chemical Resistant
RoHS Compliance	• RoHS Compliant
Forms	• Pellets
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.44		ASTM D792
Melt Mass-Flow Rate (MFR) (265°C/2.16 kg)	1.0 to 8.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.125 in)	4.0E-3 to 6.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 0.125 in)	13000	psi	ASTM D638
Tensile Strength (Break, 0.125 in)	13000	psi	ASTM D638
Flexural Modulus (0.125 in)	775000	psi	ASTM D790
Flexural Strength (0.125 in)	19500	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (0.125 in)	2.7	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed, 0.125 in)	390	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed, 0.125 in)	290	°F	ASTM D648

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	225 to 235	°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	500 to 550	°F
Mold Temperature	150 to 200	°F

Notes¹ Typical properties: these are not to be construed as specifications.

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.