

**PRL TP-G30****Polymer Resources Ltd. - Polybutylene Terephthalate**Units **Action****Legend (Open)****General Information****General**

Material Status	• Commercial: Active		
Availability	• North America		
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight		
Features	• Good Dimensional Stability	• Good Stiffness	• High Heat Resistance
RoHS Compliance	• RoHS Compliant		
UL File Number	• E113219		
Forms	• Pellets		
Processing Method	• Injection Molding		

**ASTM & ISO Properties <sup>1</sup>**

<b>Physical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Density / Specific Gravity	1.52		ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	8.0 to 20	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.125 in)	6.0E-3 to 9.0E-3	in/in	ASTM D955
<b>Mechanical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Tensile Strength (Yield, 0.125 in)	17000	psi	ASTM D638
Tensile Strength (Break, 0.125 in)	17000	psi	ASTM D638
Flexural Modulus (0.125 in)	1.10E+6	psi	ASTM D790
Flexural Strength (Break, 0.125 in)	28000	psi	ASTM D790
<b>Impact</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Notched Izod Impact (73°F, 0.125 in)	1.0	ft·lb/in	ASTM D256
<b>Thermal</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Deflection Temperature Under Load (66 psi, Unannealed, 0.125 in)	425	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed, 0.125 in)	395	°F	ASTM D648
RTI Elec			UL 746B
0.06 in	167	°F	
0.12 in	167	°F	
RTI Imp			UL 746B
0.06 in	167	°F	
0.12 in	167	°F	
RTI Str			UL 746B
0.06 in	167	°F	
0.12 in	167	°F	
<b>Electrical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Comparative Tracking Index (CTI) (0.0591 in)	PLC 1		UL 746A
High Amp Arc Ignition (HAI)			UL 746A
0.06 in	PLC 2		
0.12 in	PLC 2		
Hot-wire Ignition (HWI)			UL 746A
0.06 in	PLC 2		
0.12 in	PLC 1		
<b>Flammability</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Flame Rating			UL 94
0.06 in	HB		
0.12 in	HB		

**Processing Information****Injection****Nominal Value Unit**

Drying Temperature	240 to 250 °F
Drying Time	3.0 to 4.0 hr
Drying Time, Maximum	8.0 hr
Rear Temperature	460 to 490 °F
Middle Temperature	470 to 500 °F
Front Temperature	480 to 510 °F
Processing (Melt) Temp	450 to 500 °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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