

# PRL PC/TP-GP3

Polycarbonate + Polyester

Polymer Resources Ltd.

Message:

PRL PC/TP-GP3 is a Polycarbonate + Polyester (PC+Polyester) product. It can be processed by injection molding and is available in North America. Characteristics include:  
RoHS Compliant  
Impact Resistant  
Chemical Resistant  
Impact Modified

General Information			
Additive	Impact Modifier		
Features	General Purpose		
	Good Chemical Resistance		
	Impact Modified		
	Low Temperature Impact Resistance		
	Ultra High Impact Resistance		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.24	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (265°C/2.16 kg)	6.0 to 12	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	1.3 to 1.8	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, 3.18 mm	46.2	MPa	
Break, 3.18 mm	44.1	MPa	
Flexural Modulus (3.18 mm)	1790	MPa	ASTM D790
Flexural Strength (Break, 3.18 mm)	66.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C, 3.18 mm	480	J/m	
23°C, 3.18 mm	800	J/m	
Gardner Impact (3.18 mm)	> 36.2	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.18 mm	116	°C	
1.8 MPa, Unannealed, 3.18 mm	76.7	°C	

Injection	Nominal Value	Unit
Drying Temperature	104 to 110	°C
Drying Time	4.0 to 6.0	hr
Drying Time, Maximum	8.0	hr
Rear Temperature	227 to 243	°C
Middle Temperature	232 to 249	°C
Front Temperature	238 to 260	°C
Processing (Melt) Temp	238 to 260	°C
Mold Temperature	48.9 to 82.2	°C

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#### Recommended distributors for this material

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