

PRL PC-GP1-TFE10

Polycarbonate
Polymer Resources Ltd.

Message:

PRL PC-GP1-TFE10 is a Polycarbonate (PC) product. It can be processed by injection molding and is available in North America.

Characteristics include:

RoHS Compliant
Lubricated
Wear Resistant

General Information			
Additive	PTFE Lubricant (10%)		
Features	General Purpose		
	Good Wear Resistance		
	Medium Flow		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.22	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	7.0 to 12	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	0.50 to 0.70	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, 3.18 mm	55.2	MPa	
Break, 3.18 mm	55.2	MPa	
Flexural Modulus (3.18 mm)	2070	MPa	ASTM D790
Flexural Strength (3.18 mm)	82.7	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	160	J/m	ASTM D256
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	137	°C	
1.8 MPa, Unannealed, 3.18 mm	131	°C	
Injection	Nominal Value	Unit	
Drying Temperature	118 to 124	°C	
Drying Time	3.0 to 4.0	hr	
Drying Time, Maximum	8.0	hr	
Rear Temperature	288 to 310	°C	

Middle Temperature	299 to 321	°C
Front Temperature	310 to 332	°C
Processing (Melt) Temp	316 to 343	°C
Mold Temperature	82.2 to 116	°C

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Recommended distributors for this material

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