PRL PC-GP2-TFE5

Polycarbonate

Polymer Resources Ltd.

Message:

PRL PC-GP2-TFE5 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 (5%)		
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)	9.0 to 16	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	0.50 to 0.80	%	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			ASTM D638
Yield, 3.18 mm	58.6	MPa	
Break, 3.18 mm	58.6	MPa	
Tensile Elongation (Break, 3.18 mm)	10	%	ASTM D638
Flexural Modulus (3.18 mm)	2410	MPa	ASTM D790
Flexural Strength (3.18 mm)	93.1	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

Recommended distributors for this material

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