

PRL PC-G40-(color)-1

Polycarbonate
Polymer Resources Ltd.

Message:

PRL PC-G40-(color)-1 is a Polycarbonate (PC) product filled with 40% glass fiber. It can be processed by injection molding and is available in North America.
Characteristics include:
RoHS Compliant
Good Mold Release
Mold Release Agent

General Information			
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Additive	Mold Release		
Features	Good Mold Release		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.50	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	2.0 to 10	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	0.10 to 0.30	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, 3.18 mm	165	MPa	
Break, 3.18 mm	165	MPa	
Flexural Modulus (3.18 mm)	9650	MPa	ASTM D790
Flexural Strength (3.18 mm)	186	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	80	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.18 mm	152	°C	
1.8 MPa, Unannealed, 3.18 mm	146	°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	293 to 316	°C	
Middle Temperature	304 to 327	°C	
Front Temperature	316 to 338	°C	
Processing (Melt) Temp	302 to 329	°C	

Mold Temperature

82.2 to 116

°C

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Recommended distributors for this material

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