

# PRL PC-G40

Polycarbonate  
Polymer Resources Ltd.

Message:

PRL PC-G40 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  
Flame Retardant  
Heat Resistant

General Information			
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Features	Flame Retardant		
	High Heat Resistance		
	Self Extinguishing		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.50	g/cm <sup>3</sup>	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

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519  
Phone: +86 13424755533  
Email: sales@su-jiao.com  
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

