

PRL PC-BR1

Polycarbonate
Polymer Resources Ltd.

Message:

PRL PC-BR1 is a polycarbonate (PC) product. It can be processed by blow molding or extrusion and is available in North America.
Features include:
ROHS certification
high viscosity
Impact resistance
Heat resistance

General Information			
Features	Ultra-high impact resistance		
	Very high viscosity		
	Heat resistance, medium		
RoHS Compliance	RoHS compliance		
Forms	Particle		
Processing Method	Blow molding		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	1.0 - 5.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	0.50 - 0.80	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ASTM D785
Class m	70		ASTM D785
Class r	118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, 3.18mm	62.1	MPa	ASTM D638
Fracture, 3.18mm	66.2	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield, 3.18mm	7.0	%	ASTM D638
Fracture, 3.18mm	120	%	ASTM D638
Flexural Modulus (3.18 mm)	2310	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)	750	J/m	ASTM D256
Dart Drop 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, 3.18mm	135	°C	ASTM D648
1.8 MPa, unannealed, 3.18mm	129	°C	ASTM D648
Vicat Softening Temperature	154	°C	ASTM D1525 ¹
Optical	Nominal Value	Unit	Test Method
Transmittance (2540 μm)	88.0	%	ASTM D1003
Haze (2540 μm)	1.0	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Drying Temperature	118 - 124	°C	
Drying Time	3.0 - 4.0	hr	
Cylinder Zone 1 Temp.	299 - 321	°C	
Cylinder Zone 2 Temp.	310 - 332	°C	
Cylinder Zone 3 Temp.	321 - 343	°C	
Melt Temperature	316 - 343	°C	
Extrusion instructions			
Do not exceed 8 hour drying time.Mold Temperature: 180° to 240°F			
NOTE			
1.	标准 B (120°C/h), 载荷2 (50N)		

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