

PRL PC-BR1-UV

Polycarbonate
Polymer Resources Ltd.

Message:

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

General Information	
UL YellowCard	E113219-100215404
Additive	UV stabilizer
Features	Ultra-high impact resistance
	Very high viscosity
	Good UV resistance
	Heat resistance, medium
RoHS Compliance	RoHS compliance
UL File Number	E113219
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
RTI Elec (1.50 mm)	80.0	°C	UL 746
RTI Imp (1.50 mm)	80.0	°C	UL 746
RTI (1.50 mm)	80.0	°C	UL 746
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm)	HB		UL 94
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	
Die Temperature	82.2 - 116	°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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