

PRL PC-IM2

Polycarbonate
Polymer Resources Ltd.

Message:

PRL PC-IM2 is a Polycarbonate (PC) product. It can be processed by injection molding and is available in North America.

Characteristics include:

RoHS Compliant
Impact Resistant
Impact Modified

General Information			
Additive	Impact Modifier		
Features	Impact Modified		
	Low Temperature Impact Resistance		
	Medium Flow		
	Ultra High Impact Resistance		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19	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			ASTM D955
Flow : 3.18 mm	0.50 to 0.70	%	
Across Flow : 3.18 mm	0.50 to 0.70	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ASTM D785
L-Scale	89		
R-Scale	121		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, 3.18 mm	55.2	MPa	
Break, 3.18 mm	51.7	MPa	
Tensile Elongation			ASTM D638
Yield, 3.18 mm	6.0	%	
Break, 3.18 mm	100	%	
Flexural Modulus (3.18 mm)	2210	MPa	ASTM D790
Flexural Strength (3.18 mm)	82.7	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256

-30°C, 3.18 mm	750	J/m	
23°C, 3.18 mm	850	J/m	
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	135	°C	
1.8 MPa, Unannealed, 3.18 mm	124	°C	
Vicat Softening Temperature	141	°C	ASTM D1525 ¹
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	254 to 277	°C	
Middle Temperature	266 to 288	°C	
Front Temperature	277 to 299	°C	
Processing (Melt) Temp	274 to 302	°C	
Mold Temperature	71.1 to 93.3	°C	
NOTE			

1. Rate B (120°C/h), Loading 2 (50 N)

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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



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