

PRL PC-IM1

PC

Polymer Resources, Ltd.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	7.5	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	1.2	kg	-
Mold Shrinkage, MD	0.006	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.006	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Strength at Yield	55.2	MPa	ASTM D 638
Tensile Strength at Break	60	MPa	ASTM D 638
Elongation at Yield	6	%	ASTM D 638
Elongation at Break	100	%	ASTM D 638
Flexural Modulus	1999	MPa	ASTM D 790
Flexural Strength	79.3	MPa	ASTM D 790
Izod Impact notched, 1/8 in	907	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	534	J/m	ASTM D 256
Temperature	-40	°C	-

Thermal properties	Value	Unit	Test Standard
ASTM Data			
DTUL @ 66 psi	135	°C	ASTM D 648
DTUL @ 264 psi	124	°C	ASTM D 648
Vicat Temperature	141	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Density	1190	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	118 - 124	°C	-
Pre-drying - Time	3 - 4	h	-
Melt temperature	282 - 316	°C	-
Mold temperature	71.1 - 93.3	°C	-
Zone 1	271 - 293	°C	-
Zone 2	282 - 304	°C	-
Zone 3	293 - 316	°C	-

Characteristics**Processing**

Injection Molding

Special Characteristics

High impact or impact modified

Delivery form

Pellets

Regional Availability

North America