

PRL PC-FD1-(color)-1

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			
ASTM Data	Value	Unit	Test Standard
Tensile Strength at Yield	62.1	MPa	ASTM D 638
Tensile Strength at Break	72.4	MPa	ASTM D 638
Elongation at Yield	7	%	ASTM D 638
Elongation at Break	130	%	ASTM D 638
Flexural Modulus	2310	MPa	ASTM D 790
Flexural Strength	96.5	MPa	ASTM D 790
Rockwell Hardness	M70	-	ASTM D 785
Izod Impact notched, 1/8 in	907	J/m	ASTM D 256
Thermal properties			
ASTM Data	Value	Unit	Test Standard
DTUL @ 66 psi	138	°C	ASTM D 648
DTUL @ 264 psi	132	°C	ASTM D 648
Vicat Temperature	154	°C	ASTM D 1525
Optical properties			
ASTM Data	Value	Unit	Test Standard
Haze	1	%	ASTM D 1003
Light Transmittance	88	%	ASTM D 1003
Other properties			
ASTM Data	Value	Unit	Test Standard
Density	1200	kg/m ³	ASTM D 792
Processing Recommendation Injection Molding			
ASTM Data	Value	Unit	Test Standard
Pre-drying - Temperature	118 - 124	°C	-
Pre-drying - Time	3 - 4	h	-
Melt temperature	316 - 343	°C	-
Mold temperature	82.2 - 116	°C	-
Zone 1	288 - 310	°C	-
Zone 2	299 - 321	°C	-
Zone 3	310 - 332	°C	-

Characteristics**Processing**

Injection Molding

Certifications

Food contact

Delivery form

Pellets

Applications

General Purpose

Special Characteristics

High impact or impact modified

Regional Availability

North America