

PRL PC-FD2

PC

Polymer Resources, Ltd.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	12.5	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			
Tensile Strength at Yield	62.1	MPa	ASTM D 638
Tensile Strength at Break	68.9	MPa	ASTM D 638
Elongation at Yield	6.5	%	ASTM D 638
Elongation at Break	140	%	ASTM D 638
Flexural Modulus	2310	MPa	ASTM D 790
Flexural Strength	95.8	MPa	ASTM D 790
Rockwell Hardness	M70	-	ASTM D 785
Izod Impact notched, 1/8 in	801	J/m	ASTM D 256
Thermal properties			
ASTM Data			
DTUL @ 66 psi	135	°C	ASTM D 648
DTUL @ 264 psi	129	°C	ASTM D 648
Vicat Temperature	152	°C	ASTM D 1525
Optical properties			
ASTM Data			
Haze	1	%	ASTM D 1003
Light Transmittance	88	%	ASTM D 1003
Other properties			
Density	1200	kg/m ³	ASTM D 792
Processing Recommendation Injection Molding			
Pre-drying - Temperature	118 - 124	°C	-
Pre-drying - Time	3 - 4	h	-
Melt temperature	288 - 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

Regional Availability

North America

Delivery form

Pellets