

PRL PPX-GP1

(PPE+PS)

Polymer Resources, Ltd.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	6.5	g/10min	ASTM D 1238
Temperature	250	°C	-
Load	11.6	kg	-
Mold Shrinkage, MD	0.006	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.006	mm/mm	ASTM D 955
Mechanical properties			
ISO Data			
Charpy notched impact strength, +23°C	14.7	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	14.7	kJ/m ²	ISO 180/1A
Izod notched impact strength	4.2	kJ/m ²	ISO 180/1A
Temperature	-30	°C	-
ASTM Data			
Tensile Strength at Yield	55.2	MPa	ASTM D 638
Tensile Strength at Break	48.3	MPa	ASTM D 638
Elongation at Yield	8	%	ASTM D 638
Elongation at Break	30	%	ASTM D 638
Flexural Modulus	2413	MPa	ASTM D 790
Flexural Strength	89.6	MPa	ASTM D 790
Rockwell Hardness	R119	-	ASTM D 785
Izod Impact notched, 1/8 in	214	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	133	J/m	ASTM D 256
Temperature	-40	°C	-
Thermal properties			
ASTM Data			
UL 94 Flame rating	HB	-	UL 94
Thickness tested	1.5	mm	-
DTUL @ 66 psi	129	°C	ASTM D 648
DTUL @ 264 psi	121	°C	ASTM D 648
Vicat Temperature	146	°C	ASTM D 1525
Electrical properties			
ASTM Data			
Volume Resistivity	>1E15	Ohm*cm	ASTM D 257
Other properties			
Density	1060	kg/m ³	ASTM D 792
Processing Recommendation Injection Molding			
Pre-drying - Temperature	104 - 110	°C	-
Pre-drying - Time	3 - 4	h	-
Melt temperature	288 - 316	°C	-
Mold temperature	71.1 - 93.3	°C	-
Zone 1	249 - 299	°C	-
Zone 2	260 - 304	°C	-
Zone 3	271 - 310	°C	-

Characteristics**Processing**

Injection Molding

Applications

General Purpose

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Delivery form

Pellets

Regional Availability

North America

Chemical Resistance

Hydrolytically Stable