

PRL PPX-GP3

(PPE+PS)

Polymer Resources, Ltd.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	15	g/10min	ASTM D 1238
Temperature	250	°C	-
Load	11.6	kg	-
Mold Shrinkage, MD	0.006	mm/mm	ASTM D 955
Mechanical properties			
Value	Unit	Test Standard	
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	46.9	MPa	ASTM D 638
Tensile Strength at Break	43.4	MPa	ASTM D 638
Elongation at Yield	3	%	ASTM D 638
Elongation at Break	25	%	ASTM D 638
Flexural Modulus	2206	MPa	ASTM D 790
Flexural Strength	72.4	MPa	ASTM D 790
Rockwell Hardness	R114	-	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			
Value	Unit	Test Standard	
ASTM Data			
DTUL @ 66 psi	113	°C	ASTM D 648
DTUL @ 264 psi	107	°C	ASTM D 648
Vicat Temperature	127	°C	ASTM D 1525
Electrical properties			
Value	Unit	Test Standard	
ASTM Data			
Volume Resistivity	>1E15	Ohm*cm	ASTM D 257
Other properties			
Value	Unit	Test Standard	
Density	1050	kg/m ³	ASTM D 792
Processing Recommendation Injection Molding			
Value	Unit	Test Standard	
Pre-drying - Temperature	104 - 110	°C	-
Pre-drying - Time	3 - 4	h	-
Melt temperature	274 - 302	°C	-
Mold temperature	65.6 - 98.9	°C	-
Zone 1	243 - 293	°C	-
Zone 2	254 - 299	°C	-
Zone 3	266 - 304	°C	-

Characteristics**Processing**

Injection Molding

Applications

General Purpose

Delivery form

Pellets

Regional Availability

North America

Chemical Resistance

Hydrolytically Stable