

PRL PPX-FR2

(PPE+PS)

Polymer Resources, Ltd.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
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	16.8	kJ/m ²	ISO 179/1eA
ASTM Data			
Tensile Strength at Yield	56.5	MPa	ASTM D 638
Tensile Strength at Break	49	MPa	ASTM D 638
Elongation at Yield	6	%	ASTM D 638
Elongation at Break	25	%	ASTM D 638
Flexural Modulus	2413	MPa	ASTM D 790
Flexural Strength	82.7	MPa	ASTM D 790
Izod Impact notched, 1/8 in	267	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	107	J/m	ASTM D 256
Temperature	-30	°C	-
Thermal properties			
ASTM Data			
UL 94 Flame rating	V-1	-	UL 94
Thickness tested	3	mm	-
DTUL @ 66 psi	98.9	°C	ASTM D 648
DTUL @ 264 psi	93.3	°C	ASTM D 648
Electrical properties			
ASTM Data			
Volume Resistivity	>1E15	Ohm*cm	ASTM D 257
Other properties			
Density	1090	kg/m ³	ASTM D 792
Processing Recommendation Injection Molding			
Pre-drying - Temperature	76.7 - 82.2	°C	-
Pre-drying - Time	3 - 4	h	-
Melt temperature	249 - 277	°C	-
Mold temperature	54.4 - 76.7	°C	-
Zone 1	216 - 266	°C	-
Zone 2	227 - 271	°C	-
Zone 3	238 - 277	°C	-

Characteristics**Processing**

Injection Molding

Delivery form

Pellets

Additives

Flame retarding agent

Special Characteristics

Flame retardant

Regional Availability

North America