

PRL PPX-FR1

(PPE+PS)

Polymer Resources, Ltd.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.006	mm/mm	ASTM D 955
Mechanical properties			
ISO Data			
Charpy notched impact strength, +23°C	18.9	kJ/m ²	ISO 179/1eA
ASTM Data			
Tensile Modulus	2413	MPa	ASTM D 638
Tensile Strength at Yield	55.2	MPa	ASTM D 638
Tensile Strength at Break	48.3	MPa	ASTM D 638
Elongation at Yield	3.5	%	ASTM D 638
Elongation at Break	9	%	ASTM D 638
Flexural Modulus	2275	MPa	ASTM D 790
Flexural Strength	89.6	MPa	ASTM D 790
Rockwell Hardness	R118	-	ASTM D 785
Izod Impact notched, 1/8 in	267	J/m	ASTM D 256
Izod Impact notched, Low-Temperature Temperature	80.1 -30	J/m °C	ASTM D 256 -
Thermal properties			
ASTM Data			
UL 94 Flame rating	V-0	-	UL 94
Thickness tested	1.5	mm	-
DTUL @ 66 psi	87.8	°C	ASTM D 648
DTUL @ 264 psi	82.2	°C	ASTM D 648
Vicat Temperature	103	°C	ASTM D 1525
Electrical properties			
ISO Data			
Comparative tracking index	325	-	IEC 60112
ASTM Data			
Dielectric Strength, Short Time	22	kV/mm	ASTM D 149
Volume Resistivity	>1E15	Ohm*cm	ASTM D 257
Other properties			
Density	1080	kg/m ³	ASTM D 792
Processing Recommendation Injection Molding			
Pre-drying - Temperature	71.1 - 82.2	°C	-
Pre-drying - Time	3 - 4	h	-
Melt temperature	246 - 274	°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

Special Characteristics

Flame retardant

Delivery form

Pellets

Regional Availability

North America

Additives

Flame retarding agent