

PRL PPX-FR6

(PPE+PS)

Polymer Resources, Ltd.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	6	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	Value	Unit	Test Standard
ISO Data			
Charpy notched impact strength, +23°C	12.6	kJ/m ²	ISO 179/1eA
ASTM Data			
Tensile Strength at Yield	62.1	MPa	ASTM D 638
Tensile Strength at Break	55.2	MPa	ASTM D 638
Flexural Modulus	2620	MPa	ASTM D 790
Flexural Strength	110	MPa	ASTM D 790
Izod Impact notched, 1/8 in	160	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ASTM Data			
UL 94 Flame rating	V-0	-	UL 94
Thickness tested	1.5	mm	-
DTUL @ 66 psi	127	°C	ASTM D 648
DTUL @ 264 psi	121	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Volume Resistivity	>1E15	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
Density	1100	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	288 - 316	°C	-
Mold temperature	71.1 - 98.9	°C	-
Zone 1	249 - 299	°C	-
Zone 2	260 - 304	°C	-
Zone 3	271 - 310	°C	-

Characteristics**Processing**

Injection Molding

Special Characteristics

Flame retardant

Delivery form

Pellets

Regional Availability

North America

Additives

Flame retarding agent