

**PRL PPX-FR5**

(PPE+PS)

Polymer Resources, Ltd.

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Melt Flow Index, MFI	20	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
<b>ISO Data</b>			
Charpy notched impact strength, +23°C	15.8	kJ/m <sup>2</sup>	ISO 179/1eA
<b>ASTM Data</b>			
Tensile Strength at Yield	55.2	MPa	ASTM D 638
Tensile Strength at Break	53.1	MPa	ASTM D 638
Elongation at Yield	8	%	ASTM D 638
Elongation at Break	25	%	ASTM D 638
Flexural Modulus	2344	MPa	ASTM D 790
Flexural Strength	79.3	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	Value	Unit	Test Standard
<b>ASTM Data</b>			
UL 94 Flame rating	V-0	-	UL 94
Thickness tested	1.5	mm	-
DTUL @ 66 psi	107	°C	ASTM D 648
DTUL @ 264 psi	102	°C	ASTM D 648
Vicat Temperature	127	°C	ASTM D 1525

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

Other properties	Value	Unit	Test Standard
Density	1090	kg/m <sup>3</sup>	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	93.3 - 98.9	°C	-
Pre-drying - Time	3 - 4	h	-
Melt temperature	260 - 288	°C	-
Mold temperature	71.1 - 93.3	°C	-
Zone 1	227 - 277	°C	-
Zone 2	238 - 282	°C	-
Zone 3	249 - 288	°C	-

**Characteristics****Processing**

Injection Molding

**Delivery form**

Pellets

**Additives**

Flame retarding agent

**Special Characteristics**

Flame retardant

**Regional Availability**

North America