

**PRL PPX-FRG20**

(PPE+PS)-GF20

Polymer Resources, Ltd.

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Melt Flow Index, MFI	4.5	g/10min	ASTM D 1238
Temperature	250	°C	-
Load	11.6	kg	-
Mold Shrinkage, MD	0.0035	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Charpy notched impact strength, +23°C	6.31	kJ/m <sup>2</sup>	ISO 179/1eA
<b>ASTM Data</b>			
Tensile Strength at Yield	96.5	MPa	ASTM D 638
Tensile Strength at Break	96.5	MPa	ASTM D 638
Elongation at Break	5	%	ASTM D 638
Flexural Modulus	4964	MPa	ASTM D 790
Flexural Strength	138	MPa	ASTM D 790
Rockwell Hardness	L106	-	ASTM D 785
Izod Impact notched, 1/8 in	90.7	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	80.1	J/m	ASTM D 256
Temperature	-40	°C	-

Thermal properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
UL 94 Flame rating	V-1	-	UL 94
Thickness tested	1.7	mm	-
DTUL @ 66 psi	132	°C	ASTM D 648
DTUL @ 264 psi	127	°C	ASTM D 648

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	1230	kg/m <sup>3</sup>	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

**Delivery form**

Pellets

**Additives**

Flame retarding agent

**Special Characteristics**

Flame retardant

**Regional Availability**

North America