

PRL PPX-FRG10

(PPE+PS)-GF10

Polymer Resources, Ltd.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
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
ISO Data			
Charpy notched impact strength, +23°C	6.31	kJ/m ²	ISO 179/1eA
ASTM Data			
Tensile Strength at Yield	77.2	MPa	ASTM D 638
Tensile Strength at Break	75.8	MPa	ASTM D 638
Elongation at Break	5	%	ASTM D 638
Flexural Modulus	3723	MPa	ASTM D 790
Flexural Strength	117	MPa	ASTM D 790
Rockwell Hardness	L104	-	ASTM D 785
Izod Impact notched, 1/8 in	85.4	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	69.4	J/m	ASTM D 256
Temperature	-40	°C	-

Thermal properties	Value	Unit	Test Standard
ASTM Data			
UL 94 Flame rating	V-1	-	UL 94
Thickness tested	1.5	mm	-
DTUL @ 66 psi	132	°C	ASTM D 648
DTUL @ 264 psi	127	°C	ASTM D 648
Vicat Temperature	146	°C	ASTM D 1525

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

Other properties	Value	Unit	Test Standard
Density	1150	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	282 - 310	°C	-
Mold temperature	76.7 - 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