

PRL PPX-G10
(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	8.41	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	8.41	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Strength at Yield	72.4	MPa	ASTM D 638
Tensile Strength at Break	72.4	MPa	ASTM D 638
Elongation at Break	4	%	ASTM D 638
Flexural Modulus	3447	MPa	ASTM D 790
Flexural Strength	103	MPa	ASTM D 790
Rockwell Hardness	L104	-	ASTM D 785
Izod Impact notched, 1/8 in	107	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	80.1	J/m	ASTM D 256
Temperature	-30	°C	-

Thermal properties	Value	Unit	Test Standard
ASTM Data			
DTUL @ 66 psi	127	°C	ASTM D 648
DTUL @ 264 psi	121	°C	ASTM D 648
Vicat Temperature	135	°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	1140	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 - 104	°C	-
Zone 1	260 - 304	°C	-
Zone 2	271 - 310	°C	-
Zone 3	282 - 316	°C	-

Characteristics

Processing
Injection Molding

Chemical Resistance
Hydrolytically Stable

Delivery form
Pellets

Regional Availability
North America