

PRL PPX-MF-FR3

(PPE+PS)-MF

Polymer Resources, Ltd.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	6.5	g/10min	ASTM D 1238
Temperature	250	°C	-
Load	11.6	kg	-
Mold Shrinkage, MD	0.006	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
ASTM Data			
Tensile Strength at Yield	72.4	MPa	ASTM D 638
Tensile Strength at Break	58.6	MPa	ASTM D 638
Elongation at Yield	3.5	%	ASTM D 638
Elongation at Break	8	%	ASTM D 638
Flexural Modulus	3447	MPa	ASTM D 790
Izod Impact notched, 1/8 in	107	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	110	°C	ASTM D 648
DTUL @ 264 psi	104	°C	ASTM D 648
Vicat Temperature	127	°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	1230	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 - 93.3	°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