

PRL PC-HM-FR1

PC-GF10

Polymer Resources, Ltd.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	8.5	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	1.2	kg	-
Mold Shrinkage, MD	0.0035	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.0035	mm/mm	ASTM D 955
Mechanical properties			
ASTM Data			
Tensile Strength at Yield	65.5	MPa	ASTM D 638
Tensile Strength at Break	55.8	MPa	ASTM D 638
Elongation at Yield	6	%	ASTM D 638
Elongation at Break	15	%	ASTM D 638
Flexural Modulus	3378	MPa	ASTM D 790
Flexural Strength	103	MPa	ASTM D 790
Rockwell Hardness	M85	-	ASTM D 785
Izod Impact notched, 1/8 in	107	J/m	ASTM D 256
Thermal properties			
ASTM Data			
UL 94 Flame rating	V-0	-	UL 94
Thickness tested	1.5	mm	-
DTUL @ 66 psi	143	°C	ASTM D 648
DTUL @ 264 psi	138	°C	ASTM D 648
Vicat Temperature	152	°C	ASTM D 1525
Electrical properties			
ISO Data			
Comparative tracking index	212	-	IEC 60112
Other properties			
Density	1260	kg/m ³	ASTM D 792
Processing Recommendation Injection Molding			
Pre-drying - Temperature	118 - 124	°C	-
Pre-drying - Time	3 - 4	h	-
Melt temperature	302 - 329	°C	-
Mold temperature	82.2 - 116	°C	-
Zone 1	293 - 316	°C	-
Zone 2	304 - 327	°C	-
Zone 3	316 - 338	°C	-

Characteristics**Processing**

Injection Molding

Delivery form

Pellets

Additives

Flame retarding agent

Special Characteristics

Flame retardant, High impact or impact modified, Heat stabilized or stable to heat

Regional Availability

North America