

PRL TP-GFMF1

PBT

Polymer Resources, Ltd.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	5	g/10min	ASTM D 1238
Temperature	250	°C	-
Load	2.16	kg	-
Mold Shrinkage, MD	0.006	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Strength at Yield	96.5	MPa	ASTM D 638
Tensile Strength at Break	96.5	MPa	ASTM D 638
Flexural Modulus	9997	MPa	ASTM D 790
Flexural Strength	159	MPa	ASTM D 790
Izod Impact notched, 1/8 in	53.4	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	204	°C	ASTM D 648
DTUL @ 264 psi	188	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	1750	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	116 - 121	°C	-
Pre-drying - Time	3 - 4	h	-
Melt temperature	249 - 277	°C	-
Mold temperature	71.1 - 93.3	°C	-
Zone 1	243 - 254	°C	-
Zone 2	249 - 260	°C	-
Zone 3	254 - 266	°C	-

Characteristics**Processing**

Injection Molding

Special Characteristics

Flame retardant, Heat stabilized or stable to heat

Delivery form

Pellets

Regional Availability

North America

Additives

Flame retarding agent