

PRL TP-FR-IM

PBT

Polymer Resources, Ltd.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	6	g/10min	ASTM D 1238
Temperature	250	°C	-
Load	2.16	kg	-
Mold Shrinkage, MD	0.012	mm/mm	ASTM D 955
Mechanical properties			
ASTM Data			
Tensile Strength at Yield	44.8	MPa	ASTM D 638
Tensile Strength at Break	44.8	MPa	ASTM D 638
Flexural Modulus	2068	MPa	ASTM D 790
Izod Impact notched, 1/8 in	534	J/m	ASTM D 256
Thermal properties			
ASTM Data			
UL 94 Flame rating	V-0	-	UL 94
Thickness tested	0.851	mm	-
DTUL @ 66 psi	132	°C	ASTM D 648
DTUL @ 264 psi	87.8	°C	ASTM D 648
Electrical properties			
ISO Data			
Comparative tracking index	600	-	IEC 60112
ASTM Data			
Dielectric Strength, Short Time	27.2	kV/mm	ASTM D 149
Volume Resistivity	1E14	Ohm*cm	ASTM D 257
Arc Resistance	90	s	ASTM D 495
Other properties			
Density	1340	kg/m ³	ASTM D 792
Processing Recommendation Injection Molding			
Pre-drying - Temperature	116 - 121	°C	-
Pre-drying - Time	3 - 4	h	-
Melt temperature	232 - 260	°C	-
Mold temperature	43.3 - 82.2	°C	-
Zone 1	238 - 254	°C	-
Zone 2	243 - 260	°C	-
Zone 3	249 - 266	°C	-

Characteristics**Processing**

Injection Molding

Special Characteristics

Flame retardant, High impact or impact modified

Delivery form

Pellets

Regional Availability

North America

Additives

Flame retarding agent