

PRL TP-FR2

PBT

Polymer Resources, Ltd.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	14	g/10min	ASTM D 1238
Temperature	250	°C	-
Load	2.16	kg	-
Mold Shrinkage, MD	0.0175	mm/mm	ASTM D 955
Mechanical properties			
ASTM Data			
Tensile Strength at Yield	57.9	MPa	ASTM D 638
Tensile Strength at Break	57.9	MPa	ASTM D 638
Flexural Modulus	2586	MPa	ASTM D 790
Flexural Strength	96.5	MPa	ASTM D 790
Izod Impact notched, 1/8 in	53.4	J/m	ASTM D 256
Thermal properties			
ASTM Data			
UL 94 Flame rating	V-0	-	UL 94
Thickness tested	0.8	mm	-
DTUL @ 66 psi	149	°C	ASTM D 648
DTUL @ 264 psi	68.3	°C	ASTM D 648
Electrical properties			
ISO Data			
Comparative tracking index	325	-	IEC 60112
ASTM Data			
Dielectric Strength, Short Time	39	kV/mm	ASTM D 149
Volume Resistivity	>1E15	Ohm*cm	ASTM D 257
Arc Resistance	90	s	ASTM D 495
Other properties			
Density	1390	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 - 60	°C	-
Zone 1	232 - 249	°C	-
Zone 2	238 - 254	°C	-
Zone 3	243 - 260	°C	-

Characteristics**Processing**

Injection Molding

Delivery form

Pellets

Additives

Flame retarding agent

Special Characteristics

Flame retardant

Regional Availability

North America