

**PRL TP-FR-IM2**

PBT

Polymer Resources, Ltd.

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Melt Flow Index, MFI	<b>11.5</b>	g/10min	ASTM D 1238
Temperature	<b>250</b>	°C	-
Load	<b>2.16</b>	kg	-
Mold Shrinkage, MD	<b>0.012</b>	mm/mm	ASTM D 955
<b>Mechanical properties</b>			
<b>ASTM Data</b>			
Tensile Strength at Yield	<b>37.9</b>	MPa	ASTM D 638
Tensile Strength at Break	<b>37.9</b>	MPa	ASTM D 638
Flexural Modulus	<b>2103</b>	MPa	ASTM D 790
Flexural Strength	<b>65.5</b>	MPa	ASTM D 790
Izod Impact notched, 1/8 in	<b>641</b>	J/m	ASTM D 256
<b>Thermal properties</b>			
<b>ASTM Data</b>			
UL 94 Flame rating	<b>V-0</b>	-	UL 94
Thickness tested	<b>0.749</b>	mm	-
DTUL @ 66 psi	<b>127</b>	°C	ASTM D 648
DTUL @ 264 psi	<b>118</b>	°C	ASTM D 648
<b>Other properties</b>			
Density	<b>1330</b>	kg/m <sup>3</sup>	ASTM D 792
<b>Processing Recommendation Injection Molding</b>			
Pre-drying - Temperature	<b>116 - 121</b>	°C	-
Pre-drying - Time	<b>3 - 4</b>	h	-
Melt temperature	<b>246 - 274</b>	°C	-
Mold temperature	<b>48.9 - 76.7</b>	°C	-
Zone 1	<b>238 - 254</b>	°C	-
Zone 2	<b>243 - 260</b>	°C	-
Zone 3	<b>249 - 266</b>	°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