

**RTP 1005 FR A**

PBT-GF30

RTP Company

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Mold Shrinkage, MD	<b>0.002</b>	mm/mm	ASTM D 955
<b>Mechanical properties</b>			
<b>ASTM Data</b>			
Tensile Modulus	<b>10340</b>	MPa	ASTM D 638
Tensile Strength	<b>138</b>	MPa	ASTM D 638
Flexural Modulus	<b>9653</b>	MPa	ASTM D 790
Flexural Strength	<b>221</b>	MPa	ASTM D 790
Rockwell Hardness	<b>R 118</b>	-	ASTM D 785
Izod Impact notched, 1/8 in	<b>96.1</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>0.794</b>	mm	-
DTUL @ 66 psi	<b>210</b>	°C	ASTM D 648
DTUL @ 264 psi	<b>204</b>	°C	ASTM D 648
<b>Electrical properties</b>			
<b>ASTM Data</b>			
Dielectric Strength, Short Time	<b>23.6</b>	kV/mm	ASTM D 149
Dissipation Factor, 1 MHz	<b>0.02</b>	-	ASTM D 150
Dielectric Constant, 1 MHz	<b>3.7</b>	-	ASTM D 150
Volume Resistivity	<b>&gt;1E15</b>	Ohm*cm	ASTM D 257
<b>Other properties</b>			
Water Absorption, 24hr	<b>0.06</b>	%	ASTM D 570
Density	<b>1630</b>	kg/m <sup>3</sup>	ASTM D 792
Moisture Content	<b>0.03</b>	%	-
<b>Processing Recommendation Injection Molding</b>			
Pre-drying - Temperature	<b>121</b>	°C	-
Pre-drying - Time	<b>4</b>	h	-
Melt temperature	<b>238 - 271</b>	°C	-
Mold temperature	<b>79.4 - 107</b>	°C	-
Injection pressure	<b>68.9 - 103</b>	MPa	-

**Characteristics****Processing**

Injection Molding

**Regional Availability**

North America, Europe, Asia Pacific

**Special Characteristics**

Flame retardant