

**RTP 1000 FR A**

PBT

RTP Company

| Processing/Physical Characteristics | Value | Unit  | Test Standard |
|-------------------------------------|-------|-------|---------------|
| <b>ASTM Data</b>                    |       |       |               |
| Mold Shrinkage, MD                  | 0.021 | mm/mm | ASTM D 955    |

| Mechanical properties       | Value | Unit | Test Standard |
|-----------------------------|-------|------|---------------|
| <b>ASTM Data</b>            |       |      |               |
| Tensile Modulus             | 2965  | MPa  | ASTM D 638    |
| Tensile Strength            | 62.1  | MPa  | ASTM D 638    |
| Flexural Modulus            | 2965  | MPa  | ASTM D 790    |
| Flexural Strength           | 103   | MPa  | ASTM D 790    |
| Rockwell Hardness           | R 118 | -    | ASTM D 785    |
| Izod Impact notched, 1/8 in | 32    | J/m  | ASTM D 256    |

| Thermal properties | Value | Unit | Test Standard |
|--------------------|-------|------|---------------|
| <b>ASTM Data</b>   |       |      |               |
| UL 94 Flame rating | V-0   | -    | UL 94         |
| Thickness tested   | 0.794 | mm   | -             |
| DTUL @ 66 psi      | 160   | °C   | ASTM D 648    |
| DTUL @ 264 psi     | 71.1  | °C   | ASTM D 648    |

| Electrical properties           | Value | Unit  | Test Standard |
|---------------------------------|-------|-------|---------------|
| <b>ASTM Data</b>                |       |       |               |
| Dielectric Strength, Short Time | 18.1  | kV/mm | ASTM D 149    |
| Dissipation Factor, 1 MHz       | 0.02  | -     | ASTM D 150    |
| Dielectric Constant, 1 MHz      | 3.2   | -     | ASTM D 150    |

| Other properties       | Value | Unit              | Test Standard |
|------------------------|-------|-------------------|---------------|
| Water Absorption, 24hr | 0.08  | %                 | ASTM D 570    |
| Density                | 1430  | kg/m <sup>3</sup> | ASTM D 792    |
| Moisture Content       | 0.03  | %                 | -             |

| Processing Recommendation Injection Molding | Value      | Unit | Test Standard |
|---|------------|------|---------------|
| Pre-drying - Temperature                    | 121        | °C   | -             |
| Pre-drying - Time                           | 4          | h    | -             |
| Melt temperature                            | 238 - 271  | °C   | -             |
| Mold temperature                            | 79.4 - 107 | °C   | -             |
| Injection pressure                          | 68.9 - 103 | MPa  | -             |

**Characteristics****Processing**

Injection Molding

**Regional Availability**

North America, Europe, Asia Pacific

**Special Characteristics**

Flame retardant