

**RTP 2305 A**

TPU-GF30

RTP Company

| Processing/Physical Characteristics | Value          | Unit  | Test Standard |
|-------------------------------------|----------------|-------|---------------|
| <b>ASTM Data</b>                    |                |       |               |
| Mold Shrinkage, MD                  | <b>0.00125</b> | mm/mm | ASTM D 955    |

| Mechanical properties       | Value       | Unit | Test Standard |
|-----------------------------|-------------|------|---------------|
| <b>ASTM Data</b>            |             |      |               |
| Tensile Modulus             | <b>7929</b> | MPa  | ASTM D 638    |
| Tensile Strength            | <b>141</b>  | MPa  | ASTM D 638    |
| Flexural Modulus            | <b>7929</b> | MPa  | ASTM D 790    |
| Flexural Strength           | <b>200</b>  | MPa  | ASTM D 790    |
| Izod Impact notched, 1/8 in | <b>187</b>  | J/m  | ASTM D 256    |

| Thermal properties | Value       | Unit | Test Standard |
|--------------------|-------------|------|---------------|
| <b>ASTM Data</b>   |             |      |               |
| UL 94 Flame rating | <b>HB</b>   | -    | UL 94         |
| Thickness tested   | <b>1.59</b> | mm   | -             |

| Other properties | Value       | Unit              | Test Standard |
|------------------|-------------|-------------------|---------------|
| Density          | <b>1420</b> | kg/m <sup>3</sup> | ASTM D 792    |
| Moisture Content | <b>0.01</b> | %                 | -             |

| Processing Recommendation Injection Molding | Value              | Unit | Test Standard |
|---|--------------------|------|---------------|
| Pre-drying - Temperature                    | <b>107</b>         | °C   | -             |
| Pre-drying - Time                           | <b>4 - 6</b>       | h    | -             |
| Melt temperature                            | <b>221 - 243</b>   | °C   | -             |
| Mold temperature                            | <b>51.7 - 93.3</b> | °C   | -             |
| Injection pressure                          | <b>68.9 - 103</b>  | MPa  | -             |

**Characteristics****Processing**

Injection Molding

**Regional Availability**

North America, Europe, Asia Pacific