

**RTP 1201 S-90A**

TPU-GF10

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>Value</b> | <b>Unit</b> | <b>Test Standard</b> |
|------------------------------|--------------|-------------|----------------------|
| <b>ASTM Data</b>             |              |             |                      |
| Tensile Modulus              | <b>344.7</b> | MPa         | ASTM D 638           |
| Tensile Strength             | <b>17.2</b>  | MPa         | ASTM D 638           |
| Flexural Modulus             | <b>275.8</b> | MPa         | ASTM D 790           |
| Flexural Strength            | <b>9.65</b>  | MPa         | ASTM D 790           |
| Shore A Hardness             | <b>85</b>    | -           | ASTM D 2240          |
| Shore D Hardness             | <b>55</b>    | -           | ASTM D 2240          |
| Izod Impact notched, 1/8 in  | <b>657</b>   | J/m         | ASTM D 256           |

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

| <b>Other properties</b> | <b>Value</b> | <b>Unit</b>       | <b>Test Standard</b> |
|-------------------------|--------------|-------------------|----------------------|
| Density                 | <b>1270</b>  | kg/m <sup>3</sup> | ASTM D 792           |
| Moisture Content        | <b>0.01</b>  | %                 | -                    |

| <b>Processing Recommendation Injection Molding</b> | <b>Value</b>      | <b>Unit</b> | <b>Test Standard</b> |
|--|-------------------|-------------|----------------------|
| Pre-drying - Temperature                           | <b>93.3</b>       | °C          | -                    |
| Pre-drying - Time                                  | <b>2 - 3</b>      | h           | -                    |
| Melt temperature                                   | <b>185 - 218</b>  | °C          | -                    |
| Mold temperature                                   | <b>15.6 - 60</b>  | °C          | -                    |
| Injection pressure                                 | <b>68.9 - 103</b> | MPa         | -                    |

**Characteristics****Processing**

Injection Molding

**Regional Availability**

North America, Europe, Asia Pacific