

**RTP 2299 X 53538**

PEEK-CF

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>0.0015</b>     | mm/mm             | ASTM D 955           |
| <b>Mechanical properties</b>                       |                   |                   |                      |
| <b>ASTM Data</b>                                   |                   |                   |                      |
| Tensile Modulus                                    | <b>16550</b>      | MPa               | ASTM D 638           |
| Tensile Strength                                   | <b>145</b>        | MPa               | ASTM D 638           |
| Flexural Modulus                                   | <b>13100</b>      | MPa               | ASTM D 790           |
| Flexural Strength                                  | <b>228</b>        | MPa               | ASTM D 790           |
| Izod Impact notched, 1/8 in                        | <b>48</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>1.59</b>       | mm                | -                    |
| DTUL @ 264 psi                                     | <b>227</b>        | °C                | ASTM D 648           |
| <b>Electrical properties</b>                       |                   |                   |                      |
| <b>ASTM Data</b>                                   |                   |                   |                      |
| Volume Resistivity                                 | <b>1E7</b>        | Ohm*cm            | ASTM D 257           |
| <b>Other properties</b>                            |                   |                   |                      |
| Density  | <b>1560</b>       | kg/m <sup>3</sup> | ASTM D 792           |
| Moisture Content                                   | <b>0.1</b>        | %                 | -                    |
| <b>Processing Recommendation Injection Molding</b> |                   |                   |                      |
| Pre-drying - Temperature                           | <b>149</b>        | °C                | -                    |
| Pre-drying - Time                                  | <b>3</b>          | h                 | -                    |
| Melt temperature                                   | <b>349 - 399</b>  | °C                | -                    |
| Mold temperature                                   | <b>163 - 218</b>  | °C                | -                    |
| Injection pressure                                 | <b>82.7 - 124</b> | MPa               | -                    |

**Characteristics****Processing**

Injection Molding

**Regional Availability**

North America, Europe, Asia Pacific