

# RTP 2200 LF AR 15

Polyetheretherketone

RTP Company

Message:

Aramid Fiber

| General Information                                        |                                    |                   |             |
|------------------------------------------------------------|------------------------------------|-------------------|-------------|
| Filler / Reinforcement                                     | Aramid fiber, 15% filler by weight |                   |             |
| RoHS Compliance                                            | Contact manufacturer               |                   |             |
| Processing Method                                          | Injection molding                  |                   |             |
| Physical                                                   | Nominal Value                      | Unit              | Test Method |
| Specific Gravity                                           | 1.32                               | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (3.20 mm)                         | 1.0 - 1.5                          | %                 | ASTM D955   |
| Moisture Content                                           | 0.10                               | %                 |             |
| Primary Additive                                           | 15                                 | %                 |             |
| Mechanical                                                 | Nominal Value                      | Unit              | Test Method |
| Tensile Modulus                                            | 5520                               | MPa               | ASTM D638   |
| Tensile Strength                                           | 93.1                               | MPa               | ASTM D638   |
| Tensile Elongation (Yield)                                 | 4.0 - 6.0                          | %                 | ASTM D638   |
| Flexural Modulus                                           | 5170                               | MPa               | ASTM D790   |
| Flexural Strength                                          | 162                                | MPa               | ASTM D790   |
| Impact                                                     | Nominal Value                      | Unit              | Test Method |
| Notched Izod Impact (3.20 mm)                              | 59                                 | J/m               | ASTM D256   |
| Unnotched Izod Impact (3.20 mm)                            | 590                                | J/m               | ASTM D4812  |
| Electrical                                                 | Nominal Value                      | Unit              | Test Method |
| Surface Resistivity                                        | > 1.0E+14                          | ohms              | ASTM D257   |
| Volume Resistivity                                         | > 1.0E+14                          | ohms · cm         | ASTM D257   |
| Flammability                                               | Nominal Value                      | Unit              | Test Method |
| Flame Rating (1.50 mm, ** Values per RTP Company testing.) | V-0                                |                   | UL 94       |
| Injection                                                  | Nominal Value                      | Unit              |             |
| Drying Temperature                                         | 149                                | °C                |             |
| Drying Time                                                | 3.0                                | hr                |             |
| Dew Point                                                  | -28.9                              | °C                |             |
| Processing (Melt) Temp                                     | 349 - 399                          | °C                |             |
| Mold Temperature                                           | 163 - 218                          | °C                |             |
| Injection Pressure                                         | 82.7 - 124                         | MPa               |             |
| Injection instructions                                     |                                    |                   |             |
| Desiccant Type Dryer Required.                             |                                    |                   |             |

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