

# RTP 2201 HF

Polyetheretherketone

RTP Company

Message:

Glass Fiber - High Flow

| General Information                                        |                                                       |                   |             |
|------------------------------------------------------------|-------------------------------------------------------|-------------------|-------------|
| Filler / Reinforcement                                     | Glass fiber reinforced material, 10% filler by weight |                   |             |
| Features                                                   | High liquidity                                        |                   |             |
| RoHS Compliance                                            | Contact manufacturer                                  |                   |             |
| Processing Method                                          | Injection molding                                     |                   |             |
| Physical                                                   | Nominal Value                                         | Unit              | Test Method |
| Specific Gravity                                           | 1.37                                                  | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (3.20 mm)                         | 0.60                                                  | %                 | ASTM D955   |
| Moisture Content                                           | 0.10                                                  | %                 |             |
| Primary Additive                                           | 10                                                    | %                 |             |
| Mechanical                                                 | Nominal Value                                         | Unit              | Test Method |
| Tensile Modulus                                            | 6210                                                  | MPa               | ASTM D638   |
| Tensile Strength                                           | 103                                                   | MPa               | ASTM D638   |
| Tensile Elongation (Yield)                                 | 2.5                                                   | %                 | ASTM D638   |
| Flexural Modulus                                           | 5520                                                  | MPa               | ASTM D790   |
| Flexural Strength                                          | 186                                                   | MPa               | ASTM D790   |
| Impact                                                     | Nominal Value                                         | Unit              | Test Method |
| Notched Izod Impact (3.20 mm)                              | 53                                                    | J/m               | ASTM D256   |
| Unnotched Izod Impact (3.20 mm)                            | 370                                                   | J/m               | ASTM D4812  |
| Flammability                                               | Nominal Value                                         | 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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