

# RTP 2207 A

Polyether Ketone

RTP Company

Message:

Glass Fiber

| General Information                                        |                                                       |                   |             |
|------------------------------------------------------------|-------------------------------------------------------|-------------------|-------------|
| Filler / Reinforcement                                     | Glass fiber reinforced material, 40% filler by weight |                   |             |
| RoHS Compliance                                            | Contact manufacturer                                  |                   |             |
| Processing Method                                          | Injection molding                                     |                   |             |
| Physical                                                   | Nominal Value                                         | Unit              | Test Method |
| Specific Gravity                                           | 1.65                                                  | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (3.20 mm)                         | 0.30                                                  | %                 | ASTM D955   |
| Moisture Content                                           | 0.10                                                  | %                 |             |
| Mechanical                                                 | Nominal Value                                         | Unit              | Test Method |
| Tensile Modulus                                            | 15200                                                 | MPa               | ASTM D638   |
| Tensile Strength                                           | 207                                                   | MPa               | ASTM D638   |
| Tensile Elongation (Yield)                                 | 2.0 - 3.0                                             | %                 | ASTM D638   |
| Flexural Modulus                                           | 13800                                                 | MPa               | ASTM D790   |
| Flexural Strength                                          | 310                                                   | MPa               | ASTM D790   |
| Impact                                                     | Nominal Value                                         | Unit              | Test Method |
| Notched Izod Impact (3.20 mm)                              | 120                                                   | J/m               | ASTM D256   |
| Unnotched Izod Impact (3.20 mm)                            | 1100                                                  | J/m               | ASTM D4812  |
| Thermal                                                    | Nominal Value                                         | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed)    | > 316                                                 | °C                | ASTM D648   |
| 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                                         | 179                                                   | °C                |             |
| Drying Time                                                | 2.0                                                   | hr                |             |
| Dew Point                                                  | -28.9                                                 | °C                |             |
| Mold Temperature                                           | 179 - 218                                             | °C                |             |
| Injection instructions                                     |                                                       |                   |             |

Desiccant Type Dryer Required.

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