

# RTP 4002 FR A HS

Polyphthalamide

RTP Company

Message:

Glass Fiber - Flame Retardant - Heat Stabilized

| General Information                                         |                                                       |                   |             |
|-------------------------------------------------------------|-------------------------------------------------------|-------------------|-------------|
| Filler / Reinforcement                                      | Glass fiber reinforced material, 15% filler by weight |                   |             |
| Additive                                                    | heat stabilizer                                       |                   |             |
| Features                                                    | Thermal Stability                                     |                   |             |
|                                                             | Flame retardancy                                      |                   |             |
| RoHS Compliance                                             | Contact manufacturer                                  |                   |             |
| Processing Method                                           | Injection molding                                     |                   |             |
| Physical                                                    | Nominal Value                                         | Unit              | Test Method |
| Specific Gravity                                            | 1.60                                                  | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (3.20 mm)                          | 0.40 - 0.60                                           | %                 | ASTM D955   |
| Water Absorption (23°C, 24 hr)                              | 0.25                                                  | %                 | ASTM D570   |
| Moisture Content                                            | 0.050                                                 | %                 |             |
| Primary Additive                                            | 15                                                    | %                 |             |
| Mechanical                                                  | Nominal Value                                         | Unit              | Test Method |
| Tensile Modulus                                             | 8620                                                  | MPa               | ASTM D638   |
| Tensile Strength                                            | 89.6                                                  | MPa               | ASTM D638   |
| Tensile Elongation (Yield)                                  | 1.5                                                   | %                 | ASTM D638   |
| Flexural Modulus                                            | 8270                                                  | MPa               | ASTM D790   |
| Flexural Strength                                           | 110                                                   | MPa               | ASTM D790   |
| Impact                                                      | Nominal Value                                         | Unit              | Test Method |
| Notched Izod Impact (3.20 mm)                               | 37                                                    | J/m               | ASTM D256   |
| Unnotched Izod Impact (3.20 mm)                             | 320                                                   | J/m               | ASTM D4812  |
| Thermal                                                     | Nominal Value                                         | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed)     | 188                                                   | °C                | ASTM D648   |
| Electrical                                                  | Nominal Value                                         | Unit              | Test Method |
| Volume Resistivity                                          | > 1.0E+14                                             | ohms · cm         | ASTM D257   |
| Flammability                                                | Nominal Value                                         | Unit              | Test Method |
| Flame Rating (0.800 mm, ** Values per RTP Company testing.) | V-0                                                   |                   | UL 94       |
| Injection                                                   | Nominal Value                                         | Unit              |             |
| Drying Temperature                                          | 107                                                   | °C                |             |
| Drying Time                                                 | 4.0 - 6.0                                             | hr                |             |
| Dew Point                                                   | -31.7                                                 | °C                |             |

|                        |            |     |
|------------------------|------------|-----|
| Processing (Melt) Temp | 302 - 329  | °C  |
| Mold Temperature       | 135 - 163  | °C  |
| Injection Pressure     | 68.9 - 124 | MPa |

#### Injection instructions

Desiccant Type Dryer Required.

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