

# RTP 1400 A-100

Polyethersulfone

RTP Company

Message:

Warning: The status of this material is 'Commercial: Limited Issue'  
The data for this material has not been recently verified.  
Please contact RTP Company for current information prior to specifying this grade.

| General Information                                  |                      |                   |             |
|------------------------------------------------------|----------------------|-------------------|-------------|
| RoHS Compliance                                      | Contact manufacturer |                   |             |
| Appearance                                           | Black                |                   |             |
|                                                      | Natural color        |                   |             |
| Forms                                                | Particle             |                   |             |
| Processing Method                                    | Injection molding    |                   |             |
| Physical                                             | Nominal Value        | Unit              | Test Method |
| Specific Gravity                                     | 1.37                 | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (3.18 mm)                   | 0.70                 | %                 | ASTM D955   |
| Water Absorption (23°C, 24 hr)                       | 0.43                 | %                 | ASTM D570   |
| Mechanical                                           | Nominal Value        | Unit              | Test Method |
| Tensile Modulus                                      | 2410                 | MPa               | ASTM D638   |
| Tensile Strength                                     | 82.7                 | MPa               | ASTM D638   |
| Tensile Elongation (Break)                           | 50                   | %                 | ASTM D638   |
| Flexural Modulus                                     | 2550                 | MPa               | ASTM D790   |
| Flexural Strength                                    | 110                  | MPa               | ASTM D790   |
| Impact                                               | Nominal Value        | Unit              | Test Method |
| Notched Izod Impact (3.18 mm)                        | 85                   | J/m               | ASTM D256   |
| Unnotched Izod Impact (3.18 mm)                      | 2100                 | J/m               | ASTM D4812  |
| Thermal                                              | Nominal Value        | Unit              | Test Method |
| Deflection Temperature Under Load                    |                      |                   | ASTM D648   |
| 0.45 MPa, not annealed                               | 207                  | °C                | ASTM D648   |
| 1.8 MPa, not annealed                                | 203                  | °C                | ASTM D648   |
| Electrical                                           | Nominal Value        | Unit              | Test Method |
| Volume Resistivity                                   | 1.0E+16              | ohms · cm         | ASTM D257   |
| Flammability                                         | Nominal Value        | Unit              | Test Method |
| Flame Rating (0.794 mm, ALL)                         | V-0                  |                   | UL 94       |
| Additional Information                               |                      |                   |             |
| Molding Shrinkage, ASTM D955, .25in thick: .008in/in |                      |                   |             |
| Injection                                            | Nominal Value        | Unit              |             |
| Rear Temperature                                     | 343 - 399            | °C                |             |
| Middle Temperature                                   | 343 - 399            | °C                |             |

|                    |            |     |
|--------------------|------------|-----|
| Front Temperature  | 343 - 399  | °C  |
| Mold Temperature   | 93.3 - 177 | °C  |
| Injection Pressure | 103 - 138  | MPa |

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