

# RTP 1605

Polyarylsulfone

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                                     |                                  |                   |             |
|---|----------------------------------|-------------------|-------------|
| Filler / Reinforcement                                  | Glass Fiber,30% Filler by Weight |                   |             |
| Features  | Flame Retardant                  |                   |             |
|   | Good Toughness                   |                   |             |
|   | High Strength                    |                   |             |
| RoHS Compliance   | Contact Manufacturer             |                   |             |
| Appearance  | Natural Color                    |                   |             |
| Forms   | Pellets                          |                   |             |
| Processing Method                                       | Injection Molding                |                   |             |
| Physical  | Nominal Value                    | Unit              | Test Method |
| Specific Gravity  | 1.59                             | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow                                | 0.10 to 0.20                     | %                 | ASTM D955   |
| Water Absorption (23°C, 24 hr)                          | 0.36                             | %                 | ASTM D570   |
| Mechanical  | Nominal Value                    | Unit              | Test Method |
| Tensile Modulus   | 9650                             | MPa               | ASTM D638   |
| Tensile Strength (Yield)                                | 149                              | MPa               | ASTM D638   |
| Tensile Elongation (Break)                              | 2.2                              | %                 | ASTM D638   |
| Flexural Modulus  | 8270                             | MPa               | ASTM D790   |
| Flexural Strength (Yield)                               | 207                              | MPa               | ASTM D790   |
| Impact  | Nominal Value                    | Unit              | Test Method |
| Notched Izod Impact (3.18 mm)                           | 96                               | J/m               | ASTM D256   |
| Unnotched Izod Impact (3.18 mm)                         | 640                              | J/m               | ASTM D4812  |
| Thermal   | Nominal Value                    | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 210                              | °C                | ASTM D648   |
| Electrical  | Nominal Value                    | Unit              | Test Method |
| Volume Resistivity                                      | 1.0E+16                          | ohms · cm         | ASTM D257   |
| Dielectric Strength                                     | 16                               | kV/mm             | ASTM D149   |
| Dielectric Constant (1 MHz)                             | 4.30                             |                   | ASTM D150   |
| Dissipation Factor (1 MHz)                              | 8.0E-3                           |                   | ASTM D150   |
| Flammability  | Nominal Value                    | Unit              | Test Method |
| Flame Rating  | V-0                              |                   | UL 94       |

| Injection              | Nominal Value  | Unit               |
|------------------------|----------------|--------------------|
| Drying Temperature     | 149            | °C                 |
| Drying Time            | 6.0            | hr                 |
| Suggested Max Moisture | 0.040          | %                  |
| Suggested Max Regrind  | 20             | %                  |
| Rear Temperature       | 343 to 360     | °C                 |
| Middle Temperature     | 354 to 371     | °C                 |
| Front Temperature      | 366 to 385     | °C                 |
| Mold Temperature       | 93.3 to 163    | °C                 |
| Injection Pressure     | 68.9 to 124    | MPa                |
| Back Pressure          | 0.172 to 0.517 | MPa                |
| Screw Speed            | 60 to 90       | rpm                |
| Clamp Tonnage          | 6.9 to 11      | kN/cm <sup>2</sup> |

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