

# RTP 4705 TFE 15 SI 2

Polytrimethylene Terephthalate

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,15% Filler by Weight |                   |             |
| Additive  | PTFE Lubricant (15%)             |                   |             |
|   | Silicone Lubricant (2%)          |                   |             |
| Features  | Lubricated                       |                   |             |
| RoHS Compliance   | Contact Manufacturer             |                   |             |
| Appearance  | Black                            |                   |             |
|   | Natural Color                    |                   |             |
| Forms   | Pellets                          |                   |             |
| Processing Method                                       | Injection Molding                |                   |             |
| Physical  | Nominal Value                    | Unit              | Test Method |
| Specific Gravity  | 1.62                             | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow                                | 0.30                             | %                 | ASTM D955   |
| Mechanical  | Nominal Value                    | Unit              | Test Method |
| Tensile Modulus   | 8960                             | MPa               | ASTM D638   |
| Tensile Strength  | 122                              | MPa               | ASTM D638   |
| Tensile Elongation (Break)                              | 3.0                              | %                 | ASTM D638   |
| Flexural Modulus  | 8620                             | MPa               | ASTM D790   |
| Flexural Strength                                       | 191                              | MPa               | ASTM D790   |
| Impact  | Nominal Value                    | Unit              | Test Method |
| Notched Izod Impact (3.18 mm)                           | 80                               | J/m               | ASTM D256   |
| Unnotched Izod Impact (3.18 mm)                         | 670                              | J/m               | ASTM D4812  |
| Thermal   | Nominal Value                    | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 204                              | °C                | ASTM D648   |
| Injection   | Nominal Value                    | Unit              |             |
| Rear Temperature  | 232 to 271                       | °C                |             |
| Middle Temperature                                      | 232 to 271                       | °C                |             |
| Front Temperature                                       | 232 to 271                       | °C                |             |
| Mold Temperature  | 87.8 to 121                      | °C                |             |
| Injection Pressure                                      | 68.9 to 103                      | MPa               |             |

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