

# RTP 4702 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  | 1.53                             | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow                                | 0.40                             | %                 | ASTM D955   |
| Mechanical  | Nominal Value                    | Unit              | Test Method |
| Tensile Modulus   | 5860                             | MPa               | ASTM D638   |
| Tensile Strength  | 103                              | MPa               | ASTM D638   |
| Tensile Elongation (Break)                              | 3.1                              | %                 | ASTM D638   |
| Flexural Modulus  | 5860                             | MPa               | ASTM D790   |
| Flexural Strength                                       | 160                              | MPa               | ASTM D790   |
| Impact  | Nominal Value                    | Unit              | Test Method |
| Notched Izod Impact (3.18 mm)                           | 69                               | J/m               | ASTM D256   |
| Unnotched Izod Impact (3.18 mm)                         | 450                              | J/m               | ASTM D4812  |
| Thermal   | Nominal Value                    | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 199                              | °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               |             |

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519  
Phone: +86 13424755533  
Email: sales@su-jiao.com  
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

