# RTP 2100 LF TFE 15

Polyether Imide

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 | | | |
|---|---|---|---|
| Additive | PTFE lubricant (15%) | | |
| Features | Low liquidity<br>Lubrication | | |
| RoHS Compliance | Contact manufacturer | | |
| Appearance | Black<br>Natural color | | |
| Forms | Particle | | |
| Processing Method | Injection molding | | |
| **Physical** | **Nominal Value** | **Unit** | **Test Method** |
| Specific Gravity | 1.35 | g/cm³ | ASTM D792 |
| Molding Shrinkage - Flow | | | ASTM D955 |
| 3.18mm, injection molding | 0.60 | % | ASTM D955 |
| 6.35mm, injection molding | 0.90 | % | ASTM D955 |
| Water Absorption (23°C, 24 hr) | 0.25 | % | ASTM D570 |
| **Hardness** | **Nominal Value** | **Unit** | **Test Method** |
| Rockwell Hardness (R-Scale) | 118 | | ASTM D785 |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Modulus (Injection Molded) | 3100 | MPa | ASTM D638 |
| Tensile Strength | 86.0 | MPa | ASTM D638 |
| Tensile Elongation (Yield, Injection Molded) | 13 | % | ASTM D638 |
| Flexural Modulus (Injection Molded) | 2890 | MPa | ASTM D790 |
| Flexural Strength (Injection Molded) | 124 | MPa | ASTM D790 |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Notched Izod Impact (3.18 mm, Injection Molded) | 64 | 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 | | | ASTM D648 |
| 0.45 MPa, unannealed, injection molded | 210 | °C | ASTM D648 |

| | | | |
|---|---|---|---|
| 1.8 MPa, unannealed, injection molded | 199 | °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 (1.50 mm) | V-0 | | UL 94 |
| Additional Information | | | |
| The value listed as Flammibility, UL 94, was tested in accordance with RTP Company methods. | | | |
| Injection | Nominal Value | Unit | |
| Rear Temperature | 349 - 382 | °C | |
| Middle Temperature | 349 - 382 | °C | |
| Front Temperature | 349 - 382 | °C | |
| Mold Temperature | 135 - 177 | °C | |
| Injection Pressure | 83.0 - 124 | MPa | |



## Recommended distributors for this material

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