



**Product Data Sheet &
General Processing Conditions**

**RTP 903 TFE 15 Z
Polysulfone (PSU)
Glass Fiber
PTFE Lubricated
FDA Compliant Ingredients**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

| PERMANENCE | English | SI Metric | ASTM TEST |
|--|----------------|------------------|------------------|
| Specific Gravity | 1.48 | 1.48 | D 792 |
| Molding Shrinkage 1/8 in (3.2 mm) section | 0.0020 in/in | 0.20 % | D 955 |

MECHANICAL

| | | | |
|--|----------------------------|-------------|--------|
| Impact Strength, Izod notched 1/8 in (3.2 mm) section | 1.6 ft-lbs/in | 85 J/m | D 256 |
| unnotched 1/8 in (3.2 mm) section | 7.0 ft-lbs/in | 374 J/m | D 4812 |
| Tensile Strength | 12000 psi | 83 MPa | D 638 |
| Tensile Elongation | 2.0 - 3.0 % | 2.0 - 3.0 % | D 638 |
| Tensile Modulus | 0.90 x 10 ⁶ psi | 6206 MPa | D 638 |
| Flexural Strength | 18000 psi | 124 MPa | D 790 |
| Flexural Modulus | 0.85 x 10 ⁶ psi | 5861 MPa | D 790 |

THERMAL

| | | | |
|--|---------------|--------------|--------|
| Deflection Temperature @ 264 psi (1820 kPa) | 360 °F | 182 °C | D 648 |
| Ignition Resistance* Flammability** | V-0 @ 1/16 in | V-0 @ 1.5 mm | D 3801 |

PROPERTY NOTES

Data herein is typical and not to be construed as specifications.

Unless otherwise specified, all data listed is for natural or black colored materials. Pigments can affect properties.

* This rating is not intended to reflect hazards of this or any other material under actual fire conditions.

** Values per RTP Company testing.

GENERAL PROCESSING FOR INJECTION MOLDING

| | English | SI Metric |
|--------------------|-------------------|------------------|
| Injection Pressure | 10000 - 18000 psi | 69 - 124 MPa |
| Melt Temperature | 630 - 700 °F | 332 - 371 °C |
| Mold Temperature | 200 - 300 °F | 93 - 149 °C |
| Drying | 4 hrs @ 275 °F | 4 hrs @ 135 °C |
| Moisture Content | 0.15 % | 0.15 % |
| Dew Point | -25 °F | -32 °C |