



**Product Data Sheet &
General Processing Conditions**

**RTP 901 UV
Polysulfone (PSU)
Glass Fiber
UV Stabilized
UL94
R1**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

| PERMANENCE | English | SI Metric | ASTM TEST |
|--|-----------------------|------------------|------------------|
| Primary Additive | 10 % | 10 % | |
| Specific Gravity | 1.30 | 1.30 | D 792 |
| Molding Shrinkage 1/8 in (3.2 mm) section | 0.0040 - 0.0070 in/in | 0.40 - 0.70 % | D 955 |
| Water Absorption, 24 hrs @ 23°C | 0.230 % | 0.230 % | D 570 |

MECHANICAL

| | | | |
|--|----------------------------|-------------|--------|
| Impact Strength, Izod notched 1/8 in (3.2 mm) section | 1.3 ft-lbs/in | 69 J/m | D 256 |
| unnotched 1/8 in (3.2 mm) section | 12.0 ft-lbs/in | 641 J/m | D 4812 |
| Tensile Strength | 12000 psi | 83 MPa | D 638 |
| Tensile Elongation | 4.0 - 6.0 % | 4.0 - 6.0 % | D 638 |
| Tensile Modulus | 0.60 x 10 ⁶ psi | 4137 MPa | D 638 |
| Flexural Strength | 19000 psi | 131 MPa | D 790 |
| Flexural Modulus | 0.55 x 10 ⁶ psi | 3792 MPa | D 790 |
| Hardness Rockwell, R | 122 | 122 | D 785 |

ELECTRICAL

| | | | |
|----------------------------------|---------------|---------------|-------|
| Dielectric Strength, S/T, in oil | 430 VPM | 16.9 kV/mm | D 149 |
| Dielectric Constant, 1 MHz, Dry | 3.5 | 3.5 | D 150 |
| Dissipation Factor, 1 MHz, Dry | 0.0050 | 0.0050 | D 150 |
| Arc Resistance | 100 s | 100 s | D 495 |
| Volume Resistivity | > 1E15 ohm.cm | > 1E15 ohm.cm | D 257 |

THERMAL

| | | | |
|--|---------------|--------------|-------|
| Deflection Temperature @ 264 psi (1820 kPa) | 350 °F | 177 °C | D 648 |
| @ 66 psi (455 kPa) | 360 °F | 182 °C | D 648 |
| Ignition Resistance* | | | |
| Flammability | V-1 @ 1/16 in | V-1 @ 1.5 mm | UL94 |
| Flammability | V-0 @ 1/8 in | V-0 @ 3.0 mm | UL94 |

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.

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 |