




**Product Data Sheet &
General Processing Conditions**

**RTP 100 FR LF
Polypropylene (PP)
Low Flow
Flame Retardant
UL94 V-0**



PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

| PERMANENCE | English | SI Metric | ASTM TEST |
|----------------------------------------------|-----------------------|------------------|------------------|
| Specific Gravity | 0.99 | 0.99 | D 792 |
| Molding Shrinkage 1/8 in (3.2 mm) section | 0.0180 - 0.0240 in/in | 1.80 - 2.40 % | D 955 |
| Water Absorption, 24 hrs @ 23°C | 0.010 % | 0.010 % | D 570 |

MECHANICAL

| | | | |
|----------------------------------------------------------|----------------------------|-----------|--------|
| Impact Strength, Izod notched 1/8 in (3.2 mm) section | 1.2 ft-lbs/in | 64 J/m | D 256 |
| unnotched 1/8 in (3.2 mm) section | No Break | No Break | D 4812 |
| Tensile Strength | 4000 psi | 28 MPa | D 638 |
| Tensile Elongation | > 150.0 % | > 150.0 % | D 638 |
| Tensile Modulus | 0.16 x 10 ⁶ psi | 1103 MPa | D 638 |
| Flexural Strength | 5500 psi | 38 MPa | D 790 |
| Flexural Modulus | 0.18 x 10 ⁶ psi | 1241 MPa | D 790 |
| Hardness Rockwell, R | 86 | 86 | D 785 |

ELECTRICAL

| | | | |
|--------------------|---------------|---------------|-------|
| Volume Resistivity | > 1E16 ohm.cm | > 1E16 ohm.cm | D 257 |
|--------------------|---------------|---------------|-------|

THERMAL

| | | | |
|------------------------------------------------|--------------|--------------|-------|
| Deflection Temperature @ 264 psi (1820 kPa) | 120 °F | 49 °C | D 648 |
| @ 66 psi (455 kPa) | 205 °F | 96 °C | D 648 |
| Ignition Resistance* 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 - 15000 psi | 69 - 103 MPa |
| Melt Temperature | 375 - 440 °F | 191 - 227 °C |
| Mold Temperature | 90 - 150 °F | 32 - 66 °C |
| Drying | 2 hrs @ 175 °F | 2 hrs @ 79 °C |