




**Product Data Sheet &
General Processing Conditions**

**RTP 151
Polypropylene (PP)
Flame Retardant
Halogen Free
UL94 V-0**



PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

| PERMANENCE | English | SI Metric | ASTM TEST |
|--|-----------------------|-----------------------|------------------|
| Specific Gravity | 1.05 | 1.05 | D 792 |
| Melt Flow Rate @ 230 °C, / 2.16 kg | 4.00 - 11.00 g/10 min | 4.00 - 11.00 g/10 min | D 1238 |
| Molding Shrinkage 1/8 in (3.2 mm) section | 0.0150 - 0.0200 in/in | 1.50 - 2.00 % | D 955 |
| Water Absorption, 24 hrs @ 23°C | 0.030 % | 0.030 % | D 570 |

MECHANICAL

| | | | |
|--|----------------------------|----------|--------|
| Impact Strength, Izod notched 1/8 in (3.2 mm) section | 0.5 ft-lbs/in | 27 J/m | D 256 |
| unnotched 1/8 in (3.2 mm) section | 6.0 ft-lbs/in | 320 J/m | D 4812 |
| Tensile Strength | 3000 psi | 21 MPa | D 638 |
| Tensile Elongation | > 10.0 % | > 10.0 % | D 638 |
| Tensile Modulus | 0.38 x 10 ⁶ psi | 2620 MPa | D 638 |
| Flexural Strength | 5500 psi | 38 MPa | D 790 |
| Flexural Modulus | 0.32 x 10 ⁶ psi | 2206 MPa | D 790 |

ELECTRICAL

| | | | |
|--------------------|---------------|---------------|-------|
| Volume Resistivity | > 1E15 ohm.cm | > 1E15 ohm.cm | D 257 |
|--------------------|---------------|---------------|-------|

THERMAL

| | | | |
|--|---------------|--------------|--------|
| Deflection Temperature @ 264 psi (1820 kPa) | 135 °F | 57 °C | D 648 |
| Ignition Resistance* | | | |
| Flammability | V-0 @ 1/16 in | V-0 @ 1.5 mm | UL94 |
| Limiting Oxygen Index | 34.0 % | 34.00 % | D 2863 |

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 - 400 °F | 191 - 204 °C |
| Mold Temperature | 90 - 150 °F | 32 - 66 °C |
| Drying | 2 hrs @ 175 °F | 2 hrs @ 79 °C |