



**Product Data Sheet &
General Processing Conditions**

**RTP 2300 A FR
Rigid Thermoplastic Polyurethane (RTPU)
Flame Retardant**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

| PERMANENCE | English | SI Metric | ASTM TEST |
|--|-----------------------|------------------|------------------|
| Specific Gravity | 1.37 | 1.37 | D 792 |
| Molding Shrinkage 1/8 in (3.2 mm) section | 0.0050 - 0.0070 in/in | 0.50 - 0.70 % | D 955 |
| Water Absorption, 24 hrs @ 23°C | 0.150 % | 0.150 % | D 570 |

MECHANICAL

| | | | |
|--|----------------------------|----------|--------|
| Impact Strength, Izod notched 1/8 in (3.2 mm) section | 4.0 ft-lbs/in | 214 J/m | D 256 |
| unnotched 1/8 in (3.2 mm) section | 30.0 ft-lbs/in | 1602 J/m | D 4812 |
| Tensile Strength | 6000 psi | 41 MPa | D 638 |
| Tensile Elongation | > 10.0 % | > 10.0 % | D 638 |
| Tensile Modulus | 0.28 x 10 ⁶ psi | 1931 MPa | D 638 |
| Flexural Strength | 10000 psi | 69 MPa | D 790 |
| Flexural Modulus | 0.30 x 10 ⁶ psi | 2068 MPa | D 790 |

THERMAL

| | | | |
|--|---------------|--------------|--------|
| 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 - 15000 psi | 69 - 103 MPa |
| Melt Temperature | 430 - 470 °F | 221 - 243 °C |
| Mold Temperature | 125 - 200 °F | 52 - 93 °C |
| Drying | 4 - 6 hrs @ 225 °F | 4 - 6 hrs @ 107 °C |
| Moisture Content | 0.01 % | 0.01 % |
| Dew Point | -40 °F | -40 °C |

PROCESSING NOTES

Desiccant Type Dryer Required.