



**Product Data Sheet &
General Processing Conditions**

**RTP 2305 A
Rigid Thermoplastic Polyurethane (RTPU)
Glass Fiber**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

| PERMANENCE | English | SI Metric | ASTM TEST |
|--|-----------------------|------------------|------------------|
| Primary Additive | 30 % | 30 % | |
| Specific Gravity | 1.42 | 1.42 | D 792 |
| Molding Shrinkage 1/8 in (3.2 mm) section | 0.0005 - 0.0020 in/in | 0.05 - 0.20 % | D 955 |

MECHANICAL

| | | | |
|--|----------------------------|-------------|--------|
| Impact Strength, Izod notched 1/8 in (3.2 mm) section | 3.5 ft-lbs/in | 187 J/m | D 256 |
| unnotched 1/8 in (3.2 mm) section | 21.0 ft-lbs/in | 1121 J/m | D 4812 |
| Tensile Strength | 20500 psi | 141 MPa | D 638 |
| Tensile Elongation | 4.0 - 6.0 % | 4.0 - 6.0 % | D 638 |
| Tensile Modulus | 1.15 x 10 ⁶ psi | 7929 MPa | D 638 |
| Flexural Strength | 29000 psi | 200 MPa | D 790 |
| Flexural Modulus | 1.15 x 10 ⁶ psi | 7929 MPa | D 790 |

THERMAL

| | | | |
|--|--------------|-------------|-------|
| Ignition Resistance* Flammability** | HB @ 1/16 in | HB @ 1.5 mm | D 635 |
|--|--------------|-------------|-------|

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.