



**Product Data Sheet &
General Processing Conditions**

**RTP 2309 C
Rigid Thermoplastic Polyurethane (RTPU)
Glass Fiber**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Primary Additive	50 %	50 %	
Specific Gravity	1.66	1.66	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0005 - 0.0015 in/in	0.05 - 0.15 %	D 955

MECHANICAL

Impact Strength, Izod notched 1/8 in (3.2 mm) section	2.7 ft-lbs/in	144 J/m	D 256
unnotched 1/8 in (3.2 mm) section	13.0 ft-lbs/in	694 J/m	D 4812
Tensile Strength	30000 psi	207 MPa	D 638
Tensile Elongation	1.0 - 3.0 %	1.0 - 3.0 %	D 638
Tensile Modulus	2.25 x 10 ⁶ psi	15514 MPa	D 638
Flexural Strength	44000 psi	303 MPa	D 790
Flexural Modulus	2.40 x 10 ⁶ psi	16548 MPa	D 790

THERMAL

Ignition Resistance* Flammability**	HB @ 1/16 in	HB @ 1.5 mm	D 635
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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	460 - 500 °F	238 - 260 °C
Mold Temperature	200 - 250 °F	93 - 121 °C
Drying	4 - 6 hrs @ 270 °F	4 - 6 hrs @ 132 °C
Moisture Content	0.01 %	0.01 %
Dew Point	-40 °F	-40 °C

PROCESSING NOTES

Desiccant Type Dryer Required.