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**Product Data Sheet &
General Processing Conditions**

**RTP 2300 A
Rigid Thermoplastic Polyurethane
(RTPU)
Base Resin**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Specific Gravity	1.19	1.19	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0040 - 0.0080 in/in	0.40 - 0.80 %	D 955
MECHANICAL			
Impact Strength, Izod notched 1/8 in (3.2 mm) section	24.0 ft-lbs/in	1281 J/m	D 256
unnotched 1/8 in (3.2 mm) section	29.0 ft-lbs/in	1548 J/m	D 4812
Tensile Strength	7000 psi	48 MPa	D 638
Tensile Elongation	8.0 - 10.0 %	8.0 - 10.0 %	D 638
Tensile Modulus	0.23 x 10 ⁶ psi	1586 MPa	D 638
Flexural Strength	10100 psi	70 MPa	D 790
Flexural Modulus	0.26 x 10 ⁶ psi	1793 MPa	D 790
Hardness			
Shore D, instantaneous	80	80	D 2240
Rockwell, R	116	116	D 785
THERMAL			
Deflection Temperature @ 264 psi (1820 kPa)	140 °F	60 °C	D 648
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.