



**Product Data Sheet &
General Processing Conditions**

**RTP 2383 A
Rigid Thermoplastic Polyurethane (RTPU)
Carbon Fiber**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Primary Additive	20 %	20 %	
Specific Gravity	1.26	1.26	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0001 - 0.0015 in/in	0.01 - 0.15 %	D 955

MECHANICAL

Impact Strength, Izod notched 1/8 in (3.2 mm) section	3.3 ft-lbs/in	176 J/m	D 256
unnotched 1/8 in (3.2 mm) section	18.2 ft-lbs/in	972 J/m	D 4812
Tensile Strength	22500 psi	155 MPa	D 638
Tensile Elongation	4.0 - 5.0 %	4.0 - 5.0 %	D 638
Tensile Modulus	1.90 x 10 ⁶ psi	13100 MPa	D 638
Flexural Strength	34000 psi	234 MPa	D 790
Flexural Modulus	1.63 x 10 ⁶ psi	11239 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.