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**Product Data Sheet &
General Processing Conditions**

**RTP 2387 C
Rigid Thermoplastic Polyurethane
(RTPU)
Carbon Fiber**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Primary Additive	40 %	40 %	
Specific Gravity	1.36	1.36	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0001 - 0.0008 in/in	0.01 - 0.08 %	D 955

MECHANICAL

Impact Strength, Izod notched 1/8 in (3.2 mm) section	1.8 ft-lbs/in	96 J/m	D 256
unnotched 1/8 in (3.2 mm) section	13.5 ft-lbs/in	721 J/m	D 4812
Tensile Strength	32500 psi	224 MPa	D 638
Tensile Elongation	1.5 - 2.5 %	1.5 - 2.5 %	D 638
Tensile Modulus	3.75 x 10 ⁶ psi	25856 MPa	D 638
Flexural Strength	49000 psi	338 MPa	D 790
Flexural Modulus	3.60 x 10 ⁶ psi	24822 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	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.