



**Product Data Sheet &  
General Processing Conditions**

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

**PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS**

<b>PERMANENCE</b>	<b>English</b>	<b>SI Metric</b>	<b>ASTM TEST</b>
Primary Additive	20 %	20 %	
Specific Gravity	1.27	1.27	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0001 - 0.0014 in/in	0.01 - 0.14 %	D 955

**MECHANICAL**

Impact Strength, Izod notched 1/8 in (3.2 mm) section	1.6 ft-lbs/in	85 J/m	D 256
unnotched 1/8 in (3.2 mm) section	10.0 ft-lbs/in	534 J/m	D 4812
Tensile Strength	27000 psi	186 MPa	D 638
Tensile Elongation	2.0 - 4.5 %	2.0 - 4.5 %	D 638
Tensile Modulus	1.80 x 10 <sup>6</sup> psi	12411 MPa	D 638
Flexural Strength	37500 psi	259 MPa	D 790
Flexural Modulus	1.60 x 10 <sup>6</sup> psi	11032 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**

	<b>English</b>	<b>SI Metric</b>
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.