



**Product Data Sheet &  
General Processing Conditions**

**RTP 2382 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	15 %	15 %	
Specific Gravity	1.25	1.25	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0010 - 0.0020 in/in	0.10 - 0.20 %	D 955

**MECHANICAL**

Impact Strength, Izod notched 1/8 in (3.2 mm) section	1.5 ft-lbs/in	80 J/m	D 256
unnotched 1/8 in (3.2 mm) section	8.5 ft-lbs/in	454 J/m	D 4812
Tensile Strength	24500 psi	169 MPa	D 638
Tensile Elongation	3.0 - 5.0 %	3.0 - 5.0 %	D 638
Tensile Modulus	1.40 x 10 <sup>6</sup> psi	9653 MPa	D 638
Flexural Strength	34000 psi	234 MPa	D 790
Flexural Modulus	1.30 x 10 <sup>6</sup> psi	8964 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.