

(+) 18816996168

Ponciplastics.com



**Product Data Sheet &
General Processing Conditions**

**RTP 2385 A
Rigid Thermoplastic Polyurethane
(RTPU)
Carbon Fiber**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Primary Additive	30 %	30 %	
Specific Gravity	1.31	1.31	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0001 - 0.0010 in/in	0.01 - 0.10 %	D 955

MECHANICAL

Impact Strength, Izod notched 1/8 in (3.2 mm) section	3.6 ft-lbs/in	192 J/m	D 256
unnotched 1/8 in (3.2 mm) section	19.0 ft-lbs/in	1014 J/m	D 4812
Tensile Strength	26500 psi	183 MPa	D 638
Tensile Elongation	3.5 - 5.0 %	3.5 - 5.0 %	D 638
Tensile Modulus	2.50 x 10 ⁶ psi	17238 MPa	D 638
Flexural Strength	41000 psi	283 MPa	D 790
Flexural Modulus	2.40 x 10 ⁶ psi	16548 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.