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Ponciplastics.com



**Product Data Sheet &
General Processing Conditions**

**RTP 1203 S-65D
Ester-based Thermoplastic Polyurethane
Elastomer (TPUR/TPU)
Glass Fiber Reinforced**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Primary Additive	20 %	20 %	
Specific Gravity	1.36	1.36	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0020 in/in	0.20 %	D 955

MECHANICAL

Impact Strength, Izod notched 1/8 in (3.2 mm) section	7.7 ft-lbs/in	411 J/m	D 256
unnotched 1/8 in (3.2 mm) section	No Break	No Break	D 4812
Tensile Strength	8200 psi	57 MPa	D 638
Tensile Elongation	25.0 %	25.0 %	D 638
Tensile Modulus	0.27 x 10 ⁶ psi	1862 MPa	D 638
Flexural Strength	6600 psi	46 MPa	D 790
Flexural Modulus	0.21 x 10 ⁶ psi	1448 MPa	D 790
Hardness Shore D, instantaneous	70	70	D 2240

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

	English	SI Metric
Injection Pressure	8000 - 12000 psi	55 - 83 MPa
Melt Temperature	380 - 430 °F	193 - 221 °C
Mold Temperature	60 - 130 °F	16 - 54 °C
Drying	6 hrs @ 190 °F	6 hrs @ 88 °C
Moisture Content	0.01 %	0.01 %
Dew Point	-30 °F	-34 °C

PROCESSING NOTES

Desiccant Type Dryer Required.