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Ponciplastics.com



**Product Data Sheet &
General Processing Conditions**

**RTP 3503
Fluorinated Ethylene Propylene
(FEP)
Glass Fiber**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Primary Additive	20 %	20 %	
Specific Gravity	2.20	2.20	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0040 - 0.0060 in/in	0.40 - 0.60 %	D 955

MECHANICAL

Impact Strength, Izod notched 1/8 in (3.2 mm) section	4.5 ft-lbs/in	240 J/m	D 256
unnotched 1/8 in (3.2 mm) section	10.0 ft-lbs/in	534 J/m	D 4812
Tensile Strength	4000 psi	28 MPa	D 638
Tensile Elongation	2.0 - 3.0 %	2.0 - 3.0 %	D 638
Tensile Modulus	0.70 x 10 ⁶ psi	4826 MPa	D 638
Flexural Strength	5600 psi	39 MPa	D 790
Flexural Modulus	0.50 x 10 ⁶ psi	3448 MPa	D 790

THERMAL

Ignition Resistance* Flammability**	V-0 @ 1/16 in	V-0 @ 1.5 mm	D 3801
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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	3000 - 8000 psi	21 - 55 MPa
Melt Temperature	650 - 725 °F	343 - 385 °C
Mold Temperature	200 - 200 °F	93 - 93 °C
Drying	2 - 4 hrs @ 250 °F	2 - 4 hrs @ 121 °C