



**Product Data Sheet &
General Processing Conditions**

**RTP 1703 FR
Modified Polyphenylene Oxide (PPO)
Glass Fiber
Flame Retardant
Halogen Free**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Primary Additive	20 %	20 %	
Specific Gravity	1.25	1.25	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0020 - 0.0030 in/in	0.20 - 0.30 %	D 955
Water Absorption, 24 hrs @ 23°C	0.080 %	0.080 %	D 570

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	8.0 ft-lbs/in	427 J/m	D 4812
Tensile Strength	11000 psi	76 MPa	D 638
Tensile Elongation	2.0 %	2.0 %	D 638
Tensile Modulus	0.95 x 10 ⁶ psi	6550 MPa	D 638
Flexural Strength	16000 psi	110 MPa	D 790
Flexural Modulus	0.85 x 10 ⁶ psi	5861 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	10000 - 15000 psi	69 - 103 MPa
Melt Temperature	480 - 550 °F	249 - 288 °C
Mold Temperature	150 - 200 °F	66 - 93 °C
Drying	2 hrs @ 200 °F	2 hrs @ 93 °C
Moisture Content	0.10 %	0.10 %
Dew Point	0 °F	-18 °C