



**Product Data Sheet &  
General Processing Conditions**

**RTP 1700 TFE 10 FR  
Modified Polyphenylene Oxide (PPO)  
PTFE Lubricated  
Flame Retardant**

**PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS**

<b>PERMANENCE</b>	<b>English</b>	<b>SI Metric</b>	<b>ASTM TEST</b>
Primary Additive	10 %	10 %	
Specific Gravity	1.15	1.15	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0070 - 0.0100 in/in	0.70 - 1.00 %	D 955
Water Absorption, 24 hrs @ 23°C	0.060 %	0.060 %	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	30.0 ft-lbs/in	1602 J/m	D 4812
Tensile Strength	6000 psi	41 MPa	D 638
Tensile Elongation	> 10.0 %	> 10.0 %	D 638
Tensile Modulus	0.28 x 10 <sup>6</sup> psi	1931 MPa	D 638
Flexural Strength	11000 psi	76 MPa	D 790
Flexural Modulus	0.30 x 10 <sup>6</sup> psi	2068 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**

	<b>English</b>	<b>SI Metric</b>
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