



**Product Data Sheet &
General Processing Conditions**

**RTP 1700 FR
Modified Polyphenylene Oxide (PPO)
Flame Retardant
Halogen Free**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Specific Gravity	1.13	1.13	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0060 - 0.0090 in/in	0.60 - 0.90 %	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	3.5 ft-lbs/in	187 J/m	D 256
unnotched 1/8 in (3.2 mm) section	28.0 ft-lbs/in	1495 J/m	D 4812
Tensile Strength	7000 psi	48 MPa	D 638
Tensile Elongation	> 10.0 %	> 10.0 %	D 638
Tensile Modulus	0.35 x 10 ⁶ psi	2413 MPa	D 638
Flexural Strength	11000 psi	76 MPa	D 790
Flexural Modulus	0.33 x 10 ⁶ psi	2275 MPa	D 790

THERMAL

Deflection Temperature @ 264 psi (1820 kPa)	190 °F	88 °C	D 648
@ 66 psi (455 kPa)	200 °F	93 °C	D 648
Ignition Resistance* Flammability**	V-0 @ 1/16 in	V-0 @ 1.5 mm	D 3801

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