




**Product Data Sheet &
General Processing Conditions**

**RTP 800 TFE 20
Acetal (POM)
PTFE Lubricated**



PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Primary Additive	20 %	20 %	
Specific Gravity	1.52	1.52	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0150 - 0.0300 in/in	1.50 - 3.00 %	D 955

MECHANICAL

Impact Strength, Izod notched 1/8 in (3.2 mm) section	1.0 ft-lbs/in	53 J/m	D 256
unnotched 1/8 in (3.2 mm) section	11.0 ft-lbs/in	587 J/m	D 4812
Tensile Strength	6500 psi	45 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	9500 psi	66 MPa	D 790
Flexural Modulus	0.30 x 10 ⁶ psi	2068 MPa	D 790

ELECTRICAL

Dielectric Constant, 1 MHz, Dry	3.2	3.2	D 150
Dissipation Factor, 1 MHz, Dry	< 0.0004	< 0.0004	D 150
Volume Resistivity	1E14 - 1E16 ohm.cm	1E14 - 1E16 ohm.cm	D 257

THERMAL

Deflection Temperature @ 264 psi (1820 kPa)	220 °F	104 °C	D 648
Ignition Resistance* Flammability	HB @ 1/16 in	HB @ 1.5 mm	UL94

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.

GENERAL PROCESSING FOR INJECTION MOLDING

	English	SI Metric
Injection Pressure	10000 - 15000 psi	69 - 103 MPa
Melt Temperature	360 - 425 °F	182 - 218 °C
Mold Temperature	110 - 225 °F	43 - 107 °C
Drying	2 hrs @ 250 °F	2 hrs @ 121 °C
Moisture Content	0.15 %	0.15 %
Dew Point	-25 °F	-32 °C

PROCESSING NOTES

Desiccant Type Dryer Required.