



**Product Data Sheet &  
General Processing Conditions**

**RTP 800 MS 5  
Acetal (POM)  
Molybdenum Disulfide**

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

<b>PERMANENCE</b>	<b>English</b>	<b>SI Metric</b>	<b>ASTM TEST</b>
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Primary Additive	5 %	5 %	
Specific Gravity	1.46	1.46	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0250 - 0.0300 in/in	2.50 - 3.00 %	D 955

**MECHANICAL**

Impact Strength, Izod notched 1/8 in (3.2 mm) section	1.2 ft-lbs/in	64 J/m	D 256
unnotched 1/8 in (3.2 mm) section	20.0 ft-lbs/in	1068 J/m	D 4812
Tensile Strength	8900 psi	61 MPa	D 638
Tensile Elongation	7.0 - 12.0 %	7.0 - 12.0 %	D 638
Tensile Modulus	0.42 x 10 <sup>6</sup> psi	2896 MPa	D 638
Flexural Strength	13000 psi	90 MPa	D 790
Flexural Modulus	0.38 x 10 <sup>6</sup> psi	2620 MPa	D 790

**THERMAL**

Deflection Temperature @ 264 psi (1820 kPa)	250 °F	121 °C	D 648
Ignition Resistance* Flammability**	HB @ 1/16 in	HB @ 1.5 mm	D 635

**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	360 - 425 °F	182 - 218 °C
Mold Temperature	175 - 225 °F	79 - 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.