

(+) 18816996168

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**Product Data Sheet &  
General Processing Conditions**

**RTP 800 AR 5 TFE 10 SI 2  
Acetal (POM)  
Aramid Fiber Reinforced  
PTFE & Silicone Lubricated**

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

| PERMANENCE                                   | English      | SI Metric | ASTM<br>TEST |
|----------------------------------------------|--------------|-----------|--------------|
| Primary Additive                             | 5 %          | 5 %       |              |
| Specific Gravity                             | 1.44         | 1.44      | D 792        |
| Molding Shrinkage<br>1/8 in (3.2 mm) section | 0.0180 in/in | 1.80 %    | D 955        |

**MECHANICAL**

|                                                          |                            |              |        |
|----------------------------------------------------------|----------------------------|--------------|--------|
| Impact Strength, Izod<br>notched 1/8 in (3.2 mm) section | 1.4 ft-lbs/in              | 75 J/m       | D 256  |
| unnotched 1/8 in (3.2 mm) section                        | 11.0 ft-lbs/in             | 587 J/m      | D 4812 |
| Tensile Strength                                         | 7200 psi                   | 50 MPa       | D 638  |
| Tensile Elongation                                       | 7.0 - 12.0 %               | 7.0 - 12.0 % | D 638  |
| Tensile Modulus                                          | 0.40 x 10 <sup>6</sup> psi | 2758 MPa     | D 638  |
| Flexural Strength                                        | 10000 psi                  | 69 MPa       | D 790  |
| Flexural Modulus                                         | 0.38 x 10 <sup>6</sup> psi | 2620 MPa     | D 790  |

**THERMAL**

|                                                |              |             |       |
|------------------------------------------------|--------------|-------------|-------|
| Deflection Temperature<br>@ 264 psi (1820 kPa) | 225 °F       | 107 °C      | D 648 |
| Ignition Resistance*<br>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**

|                    | English           | SI Metric      |
|--------------------|-------------------|----------------|
| 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.