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Ponciplastics.com



## Product Data Sheet & General Processing Conditions

**RTP 842**  
**Acetal (POM)**  
**Mineral**

### PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

| PERMANENCE                                   | English               | SI Metric     | ASTM TEST |
|----------------------------------------------|-----------------------|---------------|-----------|
| Primary Additive                             | 10 %                  | 10 %          |           |
| Specific Gravity                             | 1.47                  | 1.47          | D 792     |
| Molding Shrinkage<br>1/8 in (3.2 mm) section | 0.0150 - 0.0250 in/in | 1.50 - 2.50 % | D 955     |

### MECHANICAL

|                                                          |                            |          |        |
|----------------------------------------------------------|----------------------------|----------|--------|
| Impact Strength, Izod<br>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                                         | 7750 psi                   | 53 MPa   | D 638  |
| Tensile Elongation                                       | > 10.0 %                   | > 10.0 % | D 638  |
| Tensile Modulus                                          | 0.46 x 10 <sup>6</sup> psi | 3172 MPa | D 638  |
| Flexural Strength                                        | 11500 psi                  | 79 MPa   | D 790  |
| Flexural Modulus                                         | 0.40 x 10 <sup>6</sup> psi | 2758 MPa | D 790  |

### ELECTRICAL

|                    |               |               |       |
|--------------------|---------------|---------------|-------|
| Volume Resistivity | > 1E14 ohm.cm | > 1E14 ohm.cm | D 257 |
|--------------------|---------------|---------------|-------|

### THERMAL

|                                                |              |             |       |
|------------------------------------------------|--------------|-------------|-------|
| Deflection Temperature<br>@ 264 psi (1820 kPa) | 240 °F       | 116 °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

|                    | 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.