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Ponciplastics.com



## Product Data Sheet & General Processing Conditions

### RTP 2200 HF TFE 15 Polyetheretherketone (PEEK) PTFE Lubricated High Flow

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

| PERMANENCE                                   | English               | SI Metric     | ASTM TEST |
|----------------------------------------------|-----------------------|---------------|-----------|
| Specific Gravity                             | 1.37                  | 1.37          | D 792     |
| Molding Shrinkage<br>1/8 in (3.2 mm) section | 0.0100 - 0.0200 in/in | 1.00 - 2.00 % | D 955     |

#### MECHANICAL

|                                                          |                            |             |        |
|----------------------------------------------------------|----------------------------|-------------|--------|
| Impact Strength, Izod<br>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                        | 14.0 ft-lbs/in             | 747 J/m     | D 4812 |
| Tensile Strength                                         | 11500 psi                  | 79 MPa      | D 638  |
| Tensile Elongation                                       | 3.0 - 8.0 %                | 3.0 - 8.0 % | D 638  |
| Tensile Modulus                                          | 0.50 x 10 <sup>6</sup> psi | 3448 MPa    | D 638  |
| Flexural Strength                                        | 18000 psi                  | 124 MPa     | D 790  |
| Flexural Modulus                                         | 0.50 x 10 <sup>6</sup> psi | 3448 MPa    | D 790  |

#### ELECTRICAL

|                    |                    |                    |       |
|--------------------|--------------------|--------------------|-------|
| Volume Resistivity | 1E14 - 1E16 ohm.cm | 1E14 - 1E16 ohm.cm | D 257 |
|--------------------|--------------------|--------------------|-------|

#### THERMAL

|                                                |               |              |        |
|------------------------------------------------|---------------|--------------|--------|
| Deflection Temperature<br>@ 264 psi (1820 kPa) | 310 °F        | 154 °C       | D 648  |
| Ignition Resistance*<br>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 | 12000 - 18000 psi | 83 - 124 MPa   |
| Melt Temperature   | 660 - 750 °F      | 349 - 399 °C   |
| Mold Temperature   | 325 - 425 °F      | 163 - 218 °C   |
| Drying             | 3 hrs @ 300 °F    | 3 hrs @ 149 °C |
| Moisture Content   | 0.10 %            | 0.10 %         |
| Dew Point          | -20 °F            | -29 °C         |

#### PROCESSING NOTES

Desiccant Type Dryer Required.