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Ponciplastics.com



## Product Data Sheet & General Processing Conditions

### RTP 2105 TFE 15 Polyetherimide (PEI) Glass Fiber PTFE Lubricated

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

| PERMANENCE                                               | English                    | SI Metric     | ASTM<br>TEST |
|----------------------------------------------------------|----------------------------|---------------|--------------|
| Primary Additive                                         | 30 %                       | 30 %          |              |
| Specific Gravity                                         | 1.61                       | 1.61          | D 792        |
| Molding Shrinkage<br>1/8 in (3.2 mm) section             | 0.0010 - 0.0030 in/in      | 0.10 - 0.30 % | D 955        |
| <b>MECHANICAL</b>                                        |                            |               |              |
| Impact Strength, Izod<br>notched 1/8 in (3.2 mm) section | 1.8 ft-lbs/in              | 96 J/m        | D 256        |
| unnotched 1/8 in (3.2 mm) section                        | 10.5 ft-lbs/in             | 561 J/m       | D 4812       |
| Tensile Strength                                         | 20000 psi                  | 138 MPa       | D 638        |
| Tensile Elongation                                       | 1.5 - 3.5 %                | 1.5 - 3.5 %   | D 638        |
| Tensile Modulus                                          | 1.60 x 10 <sup>6</sup> psi | 11032 MPa     | D 638        |
| Flexural Strength                                        | 30000 psi                  | 207 MPa       | D 790        |
| Flexural Modulus                                         | 1.45 x 10 <sup>6</sup> psi | 9998 MPa      | D 790        |
| <b>ELECTRICAL</b>                                        |                            |               |              |
| Volume Resistivity                                       | > 1E14 ohm.cm              | > 1E14 ohm.cm | D 257        |
| <b>THERMAL</b>                                           |                            |               |              |
| Deflection Temperature<br>@ 264 psi (1820 kPa)           | 410 °F                     | 210 °C        | D 648        |
| Ignition Resistance*                                     |                            |               |              |
| 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   | 670 - 750 °F      | 354 - 399 °C   |
| Mold Temperature   | 275 - 350 °F      | 135 - 177 °C   |
| Drying             | 4 hrs @ 300 °F    | 4 hrs @ 149 °C |
| Moisture Content   | 0.04 %            | 0.04 %         |
| Dew Point          | -20 °F            | -29 °C         |

#### PROCESSING NOTES

Desiccant Type Dryer Required.