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Poncioplastics.com



**Product Data Sheet &  
General Processing Conditions**

**RTP 405  
Polystyrene (PS)  
Glass Fiber**

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

| PERMANENCE                                   | English               | SI Metric     | ASTM<br>TEST |
|----------------------------------------------|-----------------------|---------------|--------------|
| Primary Additive                             | 30 %                  | 30 %          |              |
| Specific Gravity                             | 1.27                  | 1.27          | D 792        |
| Molding Shrinkage<br>1/8 in (3.2 mm) section | 0.0010 - 0.0030 in/in | 0.10 - 0.30 % | D 955        |

**MECHANICAL**

|                                   |                            |             |        |
|-----------------------------------|----------------------------|-------------|--------|
| Impact Strength, Izod             |                            |             |        |
| notched 1/8 in (3.2 mm) section   | 0.9 ft-lbs/in              | 48 J/m      | D 256  |
| unnotched 1/8 in (3.2 mm) section | 3.0 ft-lbs/in              | 160 J/m     | D 4812 |
| Tensile Strength                  | 11500 psi                  | 79 MPa      | D 638  |
| Tensile Elongation                | 1.0 - 2.0 %                | 1.0 - 2.0 % | D 638  |
| Tensile Modulus                   | 1.45 x 10 <sup>6</sup> psi | 9998 MPa    | D 638  |
| Flexural Strength                 | 18000 psi                  | 124 MPa     | D 790  |
| Flexural Modulus                  | 1.35 x 10 <sup>6</sup> psi | 9308 MPa    | D 790  |

**THERMAL**

|                      |              |             |       |
|----------------------|--------------|-------------|-------|
| 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   | 410 - 480 °F      | 210 - 249 °C  |
| Mold Temperature   | 100 - 150 °F      | 38 - 66 °C    |
| Drying             | 2 hrs @ 180 °F    | 2 hrs @ 82 °C |