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**Product Data Sheet &  
General Processing Conditions**

**RTP 403 HI  
Polystyrene (PS)  
High Impact  
Glass Fiber**

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

| <b>PERMANENCE</b>                            | <b>English</b>        | <b>SI Metric</b> | <b>ASTM<br/>TEST</b> |
|----------------------------------------------|-----------------------|------------------|----------------------|
| Primary Additive                             | 20 %                  | 20 %             |                      |
| Specific Gravity                             | 1.18                  | 1.18             | D 792                |
| Molding Shrinkage<br>1/8 in (3.2 mm) section | 0.0010 - 0.0040 in/in | 0.10 - 0.40 %    | 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                        | 3.0 ft-lbs/in              | 160 J/m     | D 4812 |
| Tensile Strength                                         | 6600 psi                   | 46 MPa      | D 638  |
| Tensile Elongation                                       | 1.5 - 2.5 %                | 1.5 - 2.5 % | D 638  |
| Tensile Modulus                                          | 0.90 x 10 <sup>6</sup> psi | 6206 MPa    | D 638  |
| Flexural Strength                                        | 10500 psi                  | 72 MPa      | D 790  |
| Flexural Modulus                                         | 0.75 x 10 <sup>6</sup> psi | 5171 MPa    | D 790  |

**THERMAL**

|                                        |              |             |       |
|----------------------------------------|--------------|-------------|-------|
| 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**

|                    | <b>English</b>    | <b>SI Metric</b> |
|--------------------|-------------------|------------------|
| 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    |