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**Product Data Sheet &  
General Processing Conditions**

**RTP 200 A GB 40  
Nylon 6 (PA)  
Glass Bead**

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

| PERMANENCE                                   | English               | SI Metric     | ASTM<br>TEST |
|----------------------------------------------|-----------------------|---------------|--------------|
| Primary Additive                             | 40 %                  | 40 %          |              |
| Specific Gravity                             | 1.44                  | 1.44          | D 792        |
| Molding Shrinkage<br>1/8 in (3.2 mm) section | 0.0110 - 0.0150 in/in | 1.10 - 1.50 % | D 955        |

**MECHANICAL**

|                                                          |                            |             |        |
|----------------------------------------------------------|----------------------------|-------------|--------|
| Impact Strength, Izod<br>notched 1/8 in (3.2 mm) section | 0.7 ft-lbs/in              | 37 J/m      | D 256  |
| unnotched 1/8 in (3.2 mm) section                        | 5.8 ft-lbs/in              | 310 J/m     | D 4812 |
| Tensile Strength                                         | 11000 psi                  | 76 MPa      | D 638  |
| Tensile Elongation                                       | 4.0 - 6.0 %                | 4.0 - 6.0 % | D 638  |
| Tensile Modulus                                          | 0.80 x 10 <sup>6</sup> psi | 5516 MPa    | D 638  |
| Flexural Strength                                        | 19000 psi                  | 131 MPa     | D 790  |
| Flexural Modulus                                         | 0.70 x 10 <sup>6</sup> psi | 4826 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   | 470 - 535 °F      | 243 - 279 °C  |
| Mold Temperature   | 130 - 200 °F      | 54 - 93 °C    |
| Drying             | 2 hrs @ 180 °F    | 2 hrs @ 82 °C |
| Moisture Content   | 0.20 %            | 0.20 %        |
| Dew Point          | 0 °F              | -18 °C        |

**PROCESSING NOTES**

Desiccant Type Dryer Required.