



**Product Data Sheet &
General Processing Conditions**

**RTP 300 GB 20
Polycarbonate (PC)
Glass Bead**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

| PERMANENCE | English | SI Metric | ASTM TEST |
|--|-----------------------|------------------|------------------|
| Primary Additive | 20 % | 20 % | |
| Specific Gravity | 1.33 | 1.33 | D 792 |
| Molding Shrinkage 1/8 in (3.2 mm) section | 0.0050 - 0.0080 in/in | 0.50 - 0.80 % | D 955 |

MECHANICAL

| | | | |
|--|----------------------------|-------------|--------|
| Impact Strength, Izod notched 1/8 in (3.2 mm) section | 1.5 ft-lbs/in | 80 J/m | D 256 |
| unnotched 1/8 in (3.2 mm) section | 20.0 ft-lbs/in | 1068 J/m | D 4812 |
| Tensile Strength | 8000 psi | 55 MPa | D 638 |
| Tensile Elongation | 8.0 - 9.0 % | 8.0 - 9.0 % | D 638 |
| Tensile Modulus | 0.42 x 10 ⁶ psi | 2896 MPa | D 638 |
| Flexural Strength | 13000 psi | 90 MPa | D 790 |
| Flexural Modulus | 0.42 x 10 ⁶ psi | 2896 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 | 550 - 600 °F | 288 - 316 °C |
| Mold Temperature | 180 - 250 °F | 82 - 121 °C |
| Drying | 4 hrs @ 250 °F | 4 hrs @ 121 °C |
| Moisture Content | 0.02 % | 0.02 % |
| Dew Point | -20 °F | -29 °C |

PROCESSING NOTES

Desiccant Type Dryer Required.