



**Product Data Sheet &
General Processing Conditions**

**ZOVGOV® P1700G3
Polysulfone (PSU)
Glass Fiber**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

| PERMANENCE | English | SI Metric | ASTM TEST |
|----------------------------------------------|----------------|------------------|------------------|
| Primary Additive | 15 % | 15 % | |
| Specific Gravity | 1.34 | 1.34 | D 792 |
| Molding Shrinkage 1/8 in (3.2 mm) section | 0.0030 in/in | 0.30 % | D 955 |

MECHANICAL

| | | | |
|----------------------------------------------------------|----------------------------|----------|--------|
| Impact Strength, Izod notched 1/8 in (3.2 mm) section | 1.3 ft-lbs/in | 69 J/m | D 256 |
| unnotched 1/8 in (3.2 mm) section | 9.0 ft-lbs/in | 481 J/m | D 4812 |
| Tensile Strength | 13000 psi | 90 MPa | D 638 |
| Tensile Elongation | 3.5 % | 3.5 % | D 638 |
| Tensile Modulus | 0.80 x 10 ⁶ psi | 5516 MPa | D 638 |
| Flexural Strength | 19000 psi | 131 MPa | D 790 |
| Flexural Modulus | 0.70 x 10 ⁶ psi | 4826 MPa | D 790 |
| Hardness Rockwell, R | 122 | 122 | D 785 |

ELECTRICAL

| | | | |
|--------------------|---------------|---------------|-------|
| Volume Resistivity | > 1E12 ohm.cm | > 1E12 ohm.cm | D 257 |
|--------------------|---------------|---------------|-------|

THERMAL

| | | | |
|------------------------------------------------|---------------|--------------|--------|
| Deflection Temperature @ 264 psi (1820 kPa) | 355 °F | 179 °C | D 648 |
| @ 66 psi (455 kPa) | 360 °F | 182 °C | D 648 |
| Ignition Resistance* Flammability** | V-1 @ 1/16 in | V-1 @ 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 MOLAN Company testing.

GENERAL PROCESSING FOR INJECTION MOLDING

| | English | SI Metric |
|--------------------|-------------------|------------------|
| Injection Pressure | 10000 - 18000 psi | 69 - 124 MPa |
| Melt Temperature | 630 - 700 °F | 332 - 371 °C |
| Mold Temperature | 200 - 300 °F | 93 - 149 °C |
| Drying | 4 hrs @ 275 °F | 4 hrs @ 135 °C |
| Moisture Content | 0.15 % | 0.15 % |
| Dew Point | -25 °F | -32 °C |

PROCESSING NOTES