



## Product Data Sheet & General Processing Conditions

### ZOVGOV® M11G4 Acrylonitrile Butadiene Styrene (ABS) Glass Fiber

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

| PERMANENCE                                   | English               | SI Metric     | ASTM<br>TEST |
|----------------------------------------------|-----------------------|---------------|--------------|
| Primary Additive                             | 20 %                  | 20 %          |              |
| Specific Gravity                             | 1.19                  | 1.19          | D 792        |
| Molding Shrinkage<br>1/8 in (3.2 mm) section | 0.0010 - 0.0020 in/in | 0.10 - 0.20 % | D 955        |

#### MECHANICAL

|                                                          |                            |             |        |
|----------------------------------------------------------|----------------------------|-------------|--------|
| Impact Strength, Izod<br>notched 1/8 in (3.2 mm) section | 1.2 ft-lbs/in              | 64 J/m      | D 256  |
| unnotched 1/8 in (3.2 mm) section                        | 5.0 ft-lbs/in              | 267 J/m     | D 4812 |
| Tensile Strength                                         | 12500 psi                  | 86 MPa      | D 638  |
| Tensile Elongation                                       | 1.0 - 2.0 %                | 1.0 - 2.0 % | D 638  |
| Tensile Modulus                                          | 0.90 x 10 <sup>6</sup> psi | 6206 MPa    | D 638  |
| Flexural Strength                                        | 17300 psi                  | 119 MPa     | D 790  |
| Flexural Modulus                                         | 0.85 x 10 <sup>6</sup> psi | 5861 MPa    | D 790  |

#### THERMAL

|                                                |              |             |       |
|------------------------------------------------|--------------|-------------|-------|
| Deflection Temperature<br>@ 264 psi (1820 kPa) | 200 °F       | 93 °C       | D 648 |
| 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 MOLAN Company testing.

#### GENERAL PROCESSING FOR INJECTION MOLDING

|                    | English           | SI Metric     |
|--------------------|-------------------|---------------|
| Injection Pressure | 10000 - 15000 psi | 69 - 103 MPa  |
| Melt Temperature   | 400 - 460 °F      | 204 - 238 °C  |
| Mold Temperature   | 145 - 185 °F      | 63 - 85 °C    |
| Drying             | 2 hrs @ 180 °F    | 2 hrs @ 82 °C |
| Moisture Content   | 0.10 %            | 0.10 %        |
| Dew Point          | 0 °F              | -18 °C        |

#### PROCESSING NOTES

Desiccant Type Dryer Required.