



Product Data Sheet & General Processing Conditions

ZOVGOV® M11GB6 Acrylonitrile Butadiene Styrene (ABS) Glass Bead

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

| PERMANENCE | English | SI Metric | ASTM TEST |
|--|----------------------------|------------------|------------------|
| Primary Additive | 30 % | 30 % | |
| Specific Gravity | 1.27 | 1.27 | D 792 |
| Molding Shrinkage 1/8 in (3.2 mm) section | 0.0030 - 0.0060 in/in | 0.30 - 0.60 % | D 955 |
| MECHANICAL | | | |
| Impact Strength, Izod notched 1/8 in (3.2 mm) section | 1.1 ft-lbs/in | 59 J/m | D 256 |
| unnotched 1/8 in (3.2 mm) section | 6.0 ft-lbs/in | 320 J/m | D 4812 |
| Tensile Strength | 4200 psi | 29 MPa | D 638 |
| Tensile Elongation | > 10.0 % | > 10.0 % | D 638 |
| Tensile Modulus | 0.50 x 10 ⁶ psi | 3448 MPa | D 638 |
| Flexural Strength | 8400 psi | 58 MPa | D 790 |
| Flexural Modulus | 0.45 x 10 ⁶ psi | 3103 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 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.