



Product Data Sheet & General Processing Conditions

ZOVGOV® M10GB4 Polypropylene (PP) Glass Bead

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Primary Additive	20 %	20 %	
Specific Gravity	1.03	1.03	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0130 - 0.0180 in/in	1.30 - 1.80 %	D 955

MECHANICAL

Impact Strength, Izod 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	10.0 ft-lbs/in	534 J/m	D 4812
Tensile Strength	3700 psi	26 MPa	D 638
Tensile Elongation	> 10.0 %	> 10.0 %	D 638
Tensile Modulus	0.20 x 10 ⁶ psi	1379 MPa	D 638
Flexural Strength	5400 psi	37 MPa	D 790
Flexural Modulus	0.20 x 10 ⁶ psi	1379 MPa	D 790

ELECTRICAL

Dielectric Constant, 1 MHz, Dry	2.3	2.3	D 150
Dissipation Factor, 1 MHz, Dry	< 0.0050	< 0.0050	D 150
Volume Resistivity	> 1E12 ohm.cm	> 1E12 ohm.cm	D 257

THERMAL

Deflection Temperature @ 264 psi (1820 kPa)	145 °F	63 °C	D 648
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	375 - 450 °F	191 - 232 °C
Mold Temperature	90 - 150 °F	32 - 66 °C
Drying	2 hrs @ 175 °F	2 hrs @ 79 °C

PROCESSING NOTES