



**Product Data Sheet &  
General Processing Conditions**

**ZOVGOV® M100G3  
Polyetherimide (PEI)  
Glass Fiber**

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

<b>PERMANENCE</b>	<b>English</b>	<b>SI Metric</b>	<b>ASTM TEST</b>
Specific Gravity	1.37	1.37	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0030 in/in	0.30 %	D 955
Water Absorption, 24 hrs @ 23°C	0.220 %	0.220 %	D 570

**MECHANICAL**

Impact Strength, Izod 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	12.0 ft-lbs/in	641 J/m	D 4812
Tensile Strength	20000 psi	138 MPa	D 638
Tensile Elongation	3.5 %	3.5 %	D 638
Tensile Modulus	1.00 x 10 <sup>6</sup> psi	6895 MPa	D 638
Flexural Strength	29000 psi	200 MPa	D 790
Flexural Modulus	0.80 x 10 <sup>6</sup> psi	5516 MPa	D 790
Compressive Strength	23000 psi	159 MPa	D 695

**ELECTRICAL**

Dielectric Strength, S/T, in oil	500 VPM	19.7 kV/mm	D 149
Dielectric Constant, 1 MHz, Dry	3.6	3.6	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)	405 °F	207 °C	D 648
@ 66 psi (455 kPa)	410 °F	210 °C	D 648
Ignition Resistance* Flammability**	V-0 @ 1/16 in	V-0 @ 1.5 mm	D 3801
Coefficient of Linear Thermal Expansion Flow Direction	1.7 x 10 <sup>-5</sup> /°F	3.1 x 10 <sup>-5</sup> /°C	E 831
Thermal Conductivity Through-plane	1.60 (BTU.in)/(hr.ft <sup>2</sup> .°F)	0.23 W/(m.K)	E 1530

**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**

	<b>English</b>	<b>SI Metric</b>
Injection Pressure	12000 - 18000 psi	83 - 124 MPa
Melt Temperature	670 - 750 °F	354 - 399 °C
Mold Temperature	275 - 350 °F	135 - 177 °C
Drying	4 hrs @ 300 °F	4 hrs @ 149 °C
Moisture Content	0.04 %	0.04 %
Dew Point	-20 °F	-29 °C

**PROCESSING NOTES**

Desiccant Type Dryer Required.