



## Product Data Sheet & General Processing Conditions

### ZOVGOV® M64G2 Polyethersulfone (PES) Glass Fiber

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

PERMANENCE	English	SI Metric	ASTM TEST
Primary Additive	10 %	10 %	
Specific Gravity	1.47	1.47	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0030 in/in	0.30 %	D 955
<b>MECHANICAL</b>			
Impact Strength, Izod notched 1/8 in (3.2 mm) section	1.4 ft-lbs/in	75 J/m	D 256
unnotched 1/8 in (3.2 mm) section	11.0 ft-lbs/in	587 J/m	D 4812
Tensile Strength	17500 psi	121 MPa	D 638
Tensile Elongation	3.5 %	3.5 %	D 638
Tensile Modulus	0.85 x 10 <sup>6</sup> psi	5861 MPa	D 638
Flexural Strength	25500 psi	176 MPa	D 790
Flexural Modulus	0.70 x 10 <sup>6</sup> psi	4826 MPa	D 790
Compressive Strength	18000 psi	124 MPa	D 695
Hardness Rockwell, R	121	121	D 785
<b>ELECTRICAL</b>			
Dielectric Strength, S/T, in oil	375 VPM	14.8 kV/mm	D 149
Dielectric Constant, 1 MHz, Dry	3.8	3.8	D 150
Dissipation Factor, 1 MHz, Dry	0.0070	0.0070	D 150
Arc Resistance	70 s	70 s	D 495
Volume Resistivity	> 1E12 ohm.cm	> 1E12 ohm.cm	D 257
<b>THERMAL</b>			
Deflection Temperature @ 264 psi (1820 kPa)	405 °F	207 °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	2.2 x 10 <sup>-5</sup> /°F	4.0 x 10 <sup>-5</sup> /°C	E 831
Thermal Conductivity Through-plane	2.00 (BTU.in)/(hr.ft <sup>2</sup> .°F)	0.29 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

	English	SI Metric
Injection Pressure	10000 - 15000 psi	69 - 103 MPa
Melt Temperature	650 - 710 °F	343 - 377 °C
Mold Temperature	275 - 350 °F	135 - 177 °C
Drying	6 hrs @ 300 °F	6 hrs @ 149 °C
Moisture Content	0.04 %	0.04 %
Dew Point	-25 °F	-32 °C

#### PROCESSING NOTES

Desiccant Type Dryer Required.