



Product Data Sheet & General Processing Conditions

ZOVGOV® M32G3 Polyphthalamide (PPA) Glass Fiber

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Primary Additive	15 %	15 %	
Specific Gravity	1.31	1.31	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0050 in/in	0.50 %	D 955
Water Absorption, 24 hrs @ 23°C	0.250 %	0.250 %	D 570

MECHANICAL

Impact Strength, Izod notched 1/8 in (3.2 mm) section	1.0 ft-lbs/in	53 J/m	D 256
unnotched 1/8 in (3.2 mm) section	10.0 ft-lbs/in	534 J/m	D 4812
Tensile Strength	16000 psi	110 MPa	D 638
Tensile Elongation	1.0 - 2.0 %	1.0 - 2.0 %	D 638
Tensile Modulus	1.20 x 10 ⁶ psi	8274 MPa	D 638
Flexural Strength	23000 psi	159 MPa	D 790
Flexural Modulus	1.10 x 10 ⁶ psi	7584 MPa	D 790
Hardness Rockwell, R	125	125	D 785

ELECTRICAL

Dielectric Strength, S/T, in oil	520 VPM	20.5 kV/mm	D 149
Dielectric Constant, 1 MHz, Dry	5.0	5.0	D 150
Dissipation Factor, 1 MHz, Dry	0.0190	0.0190	D 150
Volume Resistivity	> 1E15 ohm.cm	> 1E15 ohm.cm	D 257

THERMAL

Deflection Temperature @ 264 psi (1820 kPa)	450 °F	232 °C	D 648
Ignition Resistance* Flammability**	HB @ 1/16 in	HB @ 1.5 mm	D 635
Coefficient of Linear Thermal Expansion Flow Direction	2.0 x 10 ⁻⁵ /°F	3.6 x 10 ⁻⁵ /°C	E 831

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 - 18000 psi	69 - 124 MPa
Melt Temperature	575 - 625 °F	302 - 329 °C
Mold Temperature	275 - 325 °F	135 - 163 °C
Drying	4 - 6 hrs @ 225 °F	4 - 6 hrs @ 107 °C
Moisture Content	0.05 %	0.05 %
Dew Point	-25 °F	-32 °C

PROCESSING NOTES