



## Product Data Sheet & General Processing Conditions

### ZOVGOV® M20G6MD4 Nylon 6/6 (PA) Glass Fiber Molybdenum Disulfide

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

PERMANENCE	English	SI Metric	ASTM TEST
Primary Additive	30 %	30 %	
Specific Gravity	1.41	1.41	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0015 - 0.0040 in/in	0.15 - 0.40 %	D 955

#### MECHANICAL

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	15.0 ft-lbs/in	801 J/m	D 4812
Tensile Strength	24000 psi	165 MPa	D 638
Tensile Elongation	2.5 - 3.5 %	2.5 - 3.5 %	D 638
Tensile Modulus	1.45 x 10 <sup>6</sup> psi	9998 MPa	D 638
Flexural Strength	36000 psi	248 MPa	D 790
Flexural Modulus	1.35 x 10 <sup>6</sup> psi	9308 MPa	D 790

#### ELECTRICAL

Volume Resistivity	1E14 - 1E16 ohm.cm	1E14 - 1E16 ohm.cm	D 257
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#### THERMAL

Deflection Temperature @ 264 psi (1820 kPa)	480 °F	249 °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 - 18000 psi	69 - 124 MPa
Melt Temperature	530 - 570 °F	277 - 299 °C
Mold Temperature	150 - 225 °F	66 - 107 °C
Drying	4 hrs @ 175 °F	4 hrs @ 79 °C
Moisture Content	0.20 %	0.20 %
Dew Point	0 °F	-18 °C

#### PROCESSING NOTES

Desiccant Type Dryer Required.

This information is intended to be used only as a guideline for designers and processors of modified thermoplastics. Because design and processing is complex, a set solution will not solve all problems. Observation on a "trial and error" basis may be required to achieve desired results.