Product Data Sheet &
General Processing Conditions

ZOVGOV® M21G3
Polycarbonate (PC)
Glass Fiber

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Primary Additive	15 %	15 %	
Specific Gravity	1.29	1.29	D 792
Melt Flow Rate			
@ 300 °C, / 1.2 kg	7.00 - 12.00 g/10 min	7.00 - 12.00 g/10 min	D 1238
Molding Shrinkage			
1/8 in (3.2 mm) section	0.0020 - 0.0040 in/in	0.20 - 0.40 %	D 955
MECHANICAL			
Impact Strength, Izod			
notched 1/8 in (3.2 mm) section	2.0 ft-lbs/in	107 J/m	D 256
unnotched 1/8 in (3.2 mm) section	16.0 ft-lbs/in	854 J/m	D 4812
Tensile Strength	13500 psi	93 MPa	D 638
Tensile Elongation	3.0 - 5.5 %	3.0 - 5.5 %	D 638
Tensile Modulus	0.70 x 10^6 psi	4826 MPa	D 638
Flexural Strength	20500 psi	141 MPa	D 790
Flexural Modulus	0.65 x 10^6 psi	4482 MPa	D 790
THERMAL			
Deflection Temperature			
@ 264 psi (1820 kPa)	280 °F	138 °C	D 648
Ignition Resistance*			
Flammability**	V-2 @ 1/16 in	V-2 @ 1.5 mm	D 3801
Flammability**	V-1 @ 1/8 in	V-1 @ 3.0 mm	D 3801

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	550 - 600 °F	288 - 316 °C
Mold Temperature	180 - 250 °F	82 - 121 °C
Drying	4 hrs @ 250 °F	4 hrs @ 121 °C
Moisture Content	0.02 %	0.02 %
Dew Point	-20 °F	-29 °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.

Data are obtained from specimens molded under carefully controlled conditions from representative samples of the compound described herein.