



**Product Data Sheet &
General Processing Conditions**

**TPU ZOYGOV® M50G2 65D
Thermoplastic Polyurethane
Elastomer (TPUR/TPU)
Glass Fiber**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Primary Additive	10 %	10 %	
Specific Gravity	1.29	1.29	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0010 - 0.0040 in/in	0.10 - 0.40 %	D 955
MECHANICAL			
Impact Strength, Izod notched 1/8 in (3.2 mm) section	10.0 ft-lbs/in	534 J/m	D 256
unnotched 1/8 in (3.2 mm) section	No Break	No Break	D 4812
Tensile Strength Type I, 0.125 in, 0.2 in/min (3.2mm, 5 mm/min)	5500 psi	38 MPa	D 638
Tensile Elongation Break, Type I, 0.125 in, 0.2 in/min (3.2mm, 5 mm/min)	> 50.0 %	> 50.0 %	D 638
Tensile Modulus Type I, 0.125 in, 0.2 in/min (3.2mm, 5 mm/min)	0.11 x 10 ⁶ psi	758 MPa	D 638
Flexural Strength 5% Strain, 0.125 in, 0.05 in/min (3.2mm, 1.2 mm/min)	3200 psi	22 MPa	D 790
Flexural Modulus 0.125 in, (3.2mm)	0.10 x 10 ⁶ psi	690 MPa	D 790
Hardness Shore D, instantaneous	70	70	D 2240

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.

GENERAL PROCESSING FOR INJECTION MOLDING

	English	SI Metric
Injection Pressure	7000 - 14000 psi	48 - 97 MPa
Melt Temperature	365 - 425 °F	185 - 218 °C
Mold Temperature	60 - 140 °F	16 - 60 °C
Drying	6 hrs @ 180 °F	6 hrs @ 82 °C
Moisture Content	0.01 %	0.01 %
Dew Point	-20 °F	-29 °C

PROCESSING NOTES

Desiccant Type Dryer Required.