



**Product Data Sheet &
General Processing Conditions**

**TPU ZOYGOV® M50G2 55D
Ester-based Thermoplastic Polyurethane
Elastomer (TPUR/TPU)
Glass Fiber Reinforced**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Primary Additive	10 %	10 %	
Specific Gravity	1.28	1.28	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0030 in/in	0.30 %	D 955
MECHANICAL			
Impact Strength, Izod notched 1/8 in (3.2 mm) section	15.0 ft-lbs/in	801 J/m	D 256
unnotched 1/8 in (3.2 mm) section	No Break	No Break	D 4812
Tensile Strength	5600 psi	39 MPa	D 638
Tensile Elongation	65.0 %	65.0 %	D 638
Tensile Modulus	0.09 x 10 ⁶ psi	621 MPa	D 638
Flexural Strength	2500 psi	17 MPa	D 790
Flexural Modulus	0.06 x 10 ⁶ psi	414 MPa	D 790
Hardness Shore D, instantaneous	67	67	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	6000 - 12000 psi	41 - 83 MPa
Melt Temperature	380 - 425 °F	193 - 218 °C
Mold Temperature	60 - 120 °F	16 - 49 °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.

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.