



**Product Data Sheet &
General Processing Conditions**

**ZOVGOV® M50TFE3 80A
Ester-based Thermoplastic Polyurethane
Elastomer (TPUR/TPU)
PTFE Lubricated**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Specific Gravity	1.25	1.25	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0050 - 0.0100 in/in	0.50 - 1.00 %	D 955
MECHANICAL			
Tensile Strength	5000 psi	34 MPa	D 412
Tensile Elongation	> 500.0 %	> 500.0 %	D 412
Hardness Shore A, 10 s delay	83	83	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	10000 - 15000 psi	69 - 103 MPa
Melt Temperature	390 - 425 °F	199 - 218 °C
Mold Temperature	60 - 140 °F	16 - 60 °C
Drying	6 hrs @ 225 °F	6 hrs @ 107 °C
Moisture Content	0.01 %	0.01 %
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.