



**Product Data Sheet &
General Processing Conditions**

**ZOVGOV® M25FR
Polybutylene Terephthalate (PBT)
Unreinforced
Flame Retardant
UL94 V-0**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Specific Gravity	1.43	1.43	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0180 - 0.0240 in/in	1.80 - 2.40 %	D 955
Water Absorption, 24 hrs @ 23°C	0.080 %	0.080 %	D 570

MECHANICAL

Impact Strength, Izod notched 1/8 in (3.2 mm) section	0.6 ft-lbs/in	32 J/m	D 256
unnotched 1/8 in (3.2 mm) section	16.0 ft-lbs/in	854 J/m	D 4812
Tensile Strength	9000 psi	62 MPa	D 638
Tensile Elongation	6.0 - 10.0 %	6.0 - 10.0 %	D 638
Tensile Modulus	0.43 x 10 ⁶ psi	2965 MPa	D 638
Flexural Strength	15000 psi	103 MPa	D 790
Flexural Modulus	0.43 x 10 ⁶ psi	2965 MPa	D 790
Hardness Rockwell, R	118	118	D 785

ELECTRICAL

Dielectric Strength, S/T, in oil	460 VPM	18.1 kV/mm	D 149
Dielectric Constant, 1 MHz, Dry	3.2	3.2	D 150
Dissipation Factor, 1 MHz, Dry	0.0200	0.0200	D 150
Volume Resistivity	> 1E16 ohm.cm	> 1E16 ohm.cm	D 257

THERMAL

Deflection Temperature @ 264 psi (1820 kPa)	160 °F	71 °C	D 648
@ 66 psi (455 kPa)	320 °F	160 °C	D 648
Ignition Resistance* Flammability	V-0 @ 1/32 in	V-0 @ 0.8 mm	UL94

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.

GENERAL PROCESSING FOR INJECTION MOLDING

	English	SI Metric
Injection Pressure	10000 - 15000 psi	69 - 103 MPa
Melt Temperature	460 - 520 °F	238 - 271 °C
Mold Temperature	175 - 225 °F	79 - 107 °C
Drying	4 hrs @ 250 °F	4 hrs @ 121 °C
Moisture Content	0.03 %	0.03 %
Dew Point	-20 °F	-29 °C

PROCESSING NOTES

Desiccant Type Dryer Required.