



## Product Data Sheet & General Processing Conditions

### ZOVGOV® M10UV FR Polypropylene (PP) Flame Retardant UV Stabilized

The MOLAN M10UV FR family of compounds are flame retarded, unreinforced polypropylene materials. They offer excellent moldability, non-corrosive characteristics and the living-hinge effect.

#### PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Specific Gravity	0.93	0.93	D 792
Melt Flow Rate @ 230 °C, / 2.16 kg	3.00 - 5.00 g/10 min	3.00 - 5.00 g/10 min	D 1238
Molding Shrinkage 1/8 in (3.2 mm) section	0.0150 - 0.0200 in/in	1.50 - 2.00 %	D 955
Water Absorption, 24 hrs @ 23°C	0.010 %	0.010 %	D 570

#### MECHANICAL

Impact Strength, Izod notched 1/8 in (3.2 mm) section	0.7 ft-lbs/in	37 J/m	D 256
unnotched 1/8 in (3.2 mm) section	23.0 ft-lbs/in	1228 J/m	D 4812
Tensile Strength	4400 psi	30 MPa	D 638
Tensile Elongation Break	> 100.0 %	> 100.0 %	D 638
Tensile Modulus	0.22 x 10 <sup>6</sup> psi	1517 MPa	D 638
Flexural Strength	5400 psi	37 MPa	D 790
Flexural Modulus	0.19 x 10 <sup>6</sup> psi	1310 MPa	D 790

#### ELECTRICAL

Dielectric Strength, S/T, in oil	500 VPM	19.7 kV/mm	D 149
Volume Resistivity	> 1E15 ohm.cm	> 1E15 ohm.cm	D 257

#### THERMAL

Deflection Temperature @ 264 psi (1820 kPa)	130 °F	54 °C	D 648
Ignition Resistance* Flammability**	V-2 @ 1/32 in	V-2 @ 0.8 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	375 - 450 °F	191 - 232 °C
Mold Temperature	90 - 150 °F	32 - 66 °C
Drying	2 hrs @ 175 °F	2 hrs @ 79 °C

#### PROCESSING NOTES