

Product Data Sheet & General Processing Conditions

ZOVGOV® ESD M20CFR
Nylon 6/6 (PA)
Carbon Fiber
Flame Retardant
ESD Protection
Static Dissipative

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Specific Gravity Molding Shrinkage	1.45	1.45	D 792
1/8 in (3.2 mm) section	0.0020 - 0.0040 in/in	0.20 - 0.40 %	D 955
MECHANICAL			
Impact Strength, Izod			
notched 1/8 in (3.2 mm) section	1.2 ft-lbs/in	64 J/m	D 256
unnotched 1/8 in (3.2 mm) section	8.0 ft-lbs/in	427 J/m	D 4812
Tensile Strength	19000 psi	131 MPa	D 638
Tensile Elongation	2.0 - 4.0 %	2.0 - 4.0 %	D 638
Tensile Modulus	1.50 x 10^6 psi	10342 MPa	D 638
Flexural Strength	29000 psi	200 MPa	D 790
Flexural Modulus	1.20 x 10^6 psi	8274 MPa	D 790
ELECTRICAL			
Volume Resistivity	1000 - 9.9E+09 ohm.cm	1000 - 9.9E+09 ohm.cm	D 257
Surface Resistivity	1.0E+5 - 9.9E+11 ohm/sq	1.0E+5 - 9.9E+11 ohm/sq	D 257 ESD STM11.11
Surface Resistance	1.0E+4 - 9.9E+10 ohm	1.0E+4 - 9.9E+10 ohm	ESD STM11.11
Static Decay MIL-PRF-81705D, 5kV to 50 V, 12% RH	< 2.00 s	< 2.00 s	FTMS101C 4046.1
THERMAL			
Ignition Resistance* Flammability**	V-0 @ 1/16 in	V-0 @ 1.5 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.

GENERAL PROCESSING FOR INJECTION MOLDING

	English	SI Metric	
Injection Pressure	10000 - 18000 psi	69 - 124 MPa	
Melt Temperature	530 - 570 °F	277 - 299 °C	
Mold Temperature	150 - 225 °F	66 - 107 °C	
Drying	4 hrs @ 175 °F	4 hrs @ 79 °C	
Moisture Content	0.20 %	0.20 %	
Dew Point	0 °F	-18 °C	

Desiccant Type Dryer Required.

^{*} This rating is not intended to reflect hazards of this or any other material under actual fire conditions.

^{**} Values per MOLAN Company testing.

Data are obtained from specimens molded under carefully controlled conditions from representative samples of the compound described herein. Properties may be materially affected by molding techniques applied and by the size and shape of the item molded. No assurance can be implied that all molded articles will have the same properties as those listed.

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