



## “GD” Conductive Fluorosilicone Elastomer

Milnec Interconnect material Code “GD” Silver Plated Aluminum filled fluorosilicone conductive elastomer is a fully cured, conductive gasket material. Milnec GD material gaskets meet the requirements outlined in the MIL-G-83528C Type D specifications for military and aerospace grade applications requiring a lightweight connector gasket for corrosive environments with a 200°C max use temperature and good EMP resistance.

<b>Data</b>	<b>Method</b>	<b>Typical Values</b>
Elastomer Binder	—	Fluorosilicone
Conductive Filler	—	Ag/Al
Type (Ref. MIL-DTL-83528)	—	Type D
Hardness, Shore A	ASTM D2240	70 ± 7
Specific Gravity	ASTM D792	2.00 ± 0.25
Tensile Strength, psi (MPa), min.	ASTM D412	180 (1.24)
Elongation, % min./max.	ASTM D412	60/260
Tear Strength, lb/in. (kN/m), min.	ASTM D624	35 (6.13)
Compression Set, 70 hrs at 100°C,% max.	ASTM D395, Method B	30
Low Temperature Flex TR10, °C, min.	ASTM D1329	-55
Maximum Continuous Use Temperature, °C	—	200°C
Volume Resistivity, ohm-cm, max.	MIL-DTL-83528	0.012
Tensile psi (180 minimum)	ASTM D412	330 psi
Elongation % (60-260)	ASTM D412	245%
Compression Set % (30 max.)	ASTM D395 M-B	29% (70 hrs,100°C)
Compression Deflection (3.5% minimum)	ASTM D575	6%
Specific Gravity (1.75 – 2.25)	ASTM D792	2.10
Volume Resistivity ohm / cm (0.012 max.)	ASTM D991	.005 ohm /cm
Thermal Stability Range	—	-60°C – 220°C
Color	—	Tan/Dark Blue
Heat Aging	MIL-DTL-83528	0.015
Resistance During Vibration	MIL-DTL-83528	0.015
Resistance After Vibration	MIL-DTL-83528	0.012
Post Tensile Set Volume Resistivity	MIL-DTL-83528	0.015
EMP Survivability, kA per in. perimeter	MIL-DTL-83528	>0.9
Shielding Effectiveness 200 kHz (H Field)	MIL-DTL-83528	55 dB min.
Shielding Effectiveness 100 MHz (E Field)	MIL-DTL-83528	110 dB min.
Shielding Effectiveness 500 MHz (E Field)	MIL-DTL-83528	100 dB min.
Shielding Effectiveness 2 GHz (Plane Wave)	MIL-DTL-83528	95 dB min.
Shielding Effectiveness 10 GHz (Plane Wave)	MIL-DTL-83528	90 dB min.
Shielding Effectiveness 40 GHz (Plane Wave)	MIL-DTL-83528	5 dB min.