MaxShield EMI Shielding Material

TennVac
EMI / Thermal
http://www.tennvac.com

Conductive Form-In-Place Gasket F5382

Description

The conductive Form-In-Place fluorosilicone material F5382 contains high mechanical strength, excellent adhesion, and high EMI shielding performance in harshest corrosive environments, F5382 is the best choice for military and aerospace applications.

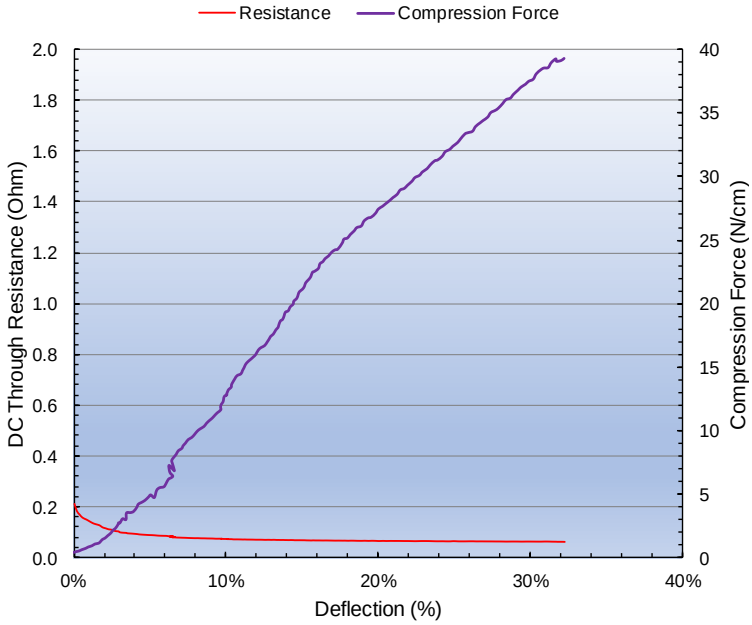
This material is suitable for metal or glass fabric filled plastic substrates.

The F5382 offers enhanced galvanic corrosion resistance and stability in severe environments.

Benefits

- Flexibility at low temperature
- Resistance to polar solvent, automotive fuel, oil additives (Amine), chemicals and steam
- Very low outgassing, pass NASA outgassing test
- More than 100 dB shielding effectiveness from 200 MHz to 40GHz after salt fog test and temperature cycle test
- More than 80N/cm² shear adhesion on common housing substrates and coatings

Force-Deflection-Resistance of F5382 Gasket
D Shape 1.0 mm(H) * 1.3 mm(W) * 5.0 mm(L)
Rate of Strain, 1.5mm/min



Properties	Unit	F5382
Elastomer Binder		Fluorosilicone
Conductive Filler		Ni/Graphite
Cure System		Thermal
Density	g/cm^3	2.50
Hardness	Shore A	75
Adhesion on Al metal	N/cm^3	>80
Tensile Strength	psi	210
Elongation	%	100
Tear Strength	lbf/in	41
Compression Set @70°C, 72 hrs.	%	25%
Temperature Range	°C	-55 to150
Maximum Using Temperature	°C	200
UL Flammability Rating	UL94 V-0	E303387
DC-Through Resistance, 30% compression, 1mmH	Ohm	0.06
Shielding Effectiveness 200 MHz ~ 40 GHz	dB	>100

REV 1.0

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