MaxShield

EMI Shielding Material



F5301

Conductive Form-In-Place Gasket

40

35

30

25

20

15

10

5

0

30%

Compression Force (N/cm



Force-Deflection-Resistance of F5301 Gasket D Shape 1.0 mm(H) * 1.3 mm(W) * 5.0 mm(L) Rate of Strain, 1.5mm/min

Description

The conductive Form-In-Place material F5301 contains high mechanical strength, excellent adhesion and is ideal for a small gasket profile requirement.

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

The F5301 offers enhanced galvanic corrosion resistance and stability in severe environments.

Benefits

- > Extremely small gasket profile in Ni/Gr filled FIP line
- More than 100 dB shielding effectiveness from 200 MHz to 40 GHz with a small gasket bead
- Accuracy for gasket location within 0.001" (0.025 mm)
- More than 100 Newtons/cm² shear adhesion on common housing substrates and coatings

Properties	Unit	F5301
Elastomer Binder		Silicone
Conductive Filler		Ni/Gr
Cure System		Thermal
Density	g/cm ³	2.0
Hardness	Shore A	75
Adhesion on Almetal	N/cm ²	>100
Tensile Strength	psi	150
Elongation	%	80
TearStrength	lbf/in	40
Compression Set @70°C,72 hrs.	%	30
Temperature Range	°C	-45 to 150
Maximum Using Temperature	°C	200
UL Flammability Rating	UL94V-0	E303387
DC-Through Resistance@30%compression,1mm H	Ohm	0.05
ShieldingEffectiveness 200MHz~40GHz	dB	>100

CERTIFIED SAFETY US E303387

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2.0

1.8

1.6

1.4

1.2

1.0

0.6

0.4

0.2

0%

10%

Deflection (%)

DC Through Resistance (Ohm)

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20%

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