

## Technical information : BI MATERIAL GASKETS

### Description:

Bi material gaskets are made of silicone or fluorosilicone, with a second silicone material charged with conductive particles. These two materials are extruded simultaneously. The conductive silicone partially covers the gasket section. This process makes the bi material gasket resistant and flexible. Several gasket profiles are available.

This type of gasket is used very efficiently for IP sealing and shielding over time. Our range of bi material gaskets is developed to withstand the corrosion and aging problems encountered in aggressive environments: salt spray, electrolytic agents, oil, and solvents.

<b>Material</b>	Silicone, fluoro silicone, loaded particles (aluminum, copper, nickel, graphite)
<b>Manufacturing processes</b>	extrusion, molding, splicing
<b>Packaging</b>	Sealed bags
<b>Options</b>	Anti-stretch
<b>Prototyping</b>	-

Property	Units	Value		
Base material	-	Silicone	Silicone	Silicone
Conductive filler	-	-	Ni/C	Ag/Al
Volume resistivity, as moulded	mOh.cm	-	5.6	3
Volume resistivity, aged 188C/48h	mOh.cm	-	7.8	4
Shielding effect	dB	-	140	130 / 110
Density	g/cm3	1.1	2.4	2.1
Hardness	Shore A	40	80	80
Tensile strength	Mpa	8.5	4.3	3.5
Elongation at break	%	650	140	200
Tear strength	N/mm	30	16	16
Compression set, 72h, 100°C	%	8	40	31
Flammability	-	V1	V0	V0
Compression modulus (10% and 20% strain)	Mpa	4.0/4.5	10.9/13.1	8.8/9.7

### AVAILABILITY :



Bi-material gasket



Hook option for holding in the groove



Anti-stretch option