CONSTANT CONDUCTIVE ELASTOMERS
Silicone carbon

Silicone profiles are loaded with a variety of highly conductive particles providing superior EMI/RFI shielding performance combined with excellent environmental sealing.

Carbon offers the best cost/performance ratio and temperature resistance and is mainly used for static discharge.

- Filler material: Carbon (C)
- Wide variety of profiles as standards
- Customer-specific lenghts, cross-section designs and pasted O-rings available
- Very good elasticity
- Good heat resistance
- Excellent physical properties

RoHS ✓ REACH ✓ 12 13 REEL

PRODUCT SPECIFICATIONS

PROPERTY		VALUE / TOLERANCE	TEST METHOD
Conductive filler material		Carbon (C)	-
Basic material		Silicone	-
Hardness		60 Shore A ± 5	ASTM D2240
Volume resistivity		2,2 Ω*cm	ASTM D991
Elongation (min)		180%	ASTM D412
Tear strength		26,5 N/mm	ASTM D624
Specific gravity		2,0 g/cm³ ± 0,25%	ASTM D792
Compression set (72h @ 100°C)		Max. 45,0 %	ASTM D395
Tensile strength (min)		7,2 MPa	ASTM D412
Operating temperature		-50 - 160°C	-
Shielding Effectiveness	10 MHz	30 dB	MIL-DTL 83528 C
	100 MHz	65 dB	
	400 MHz	60 dB	
	1 GHz	N/A	
	2 GHz	40 dB	
	6 GHz	N/A	
	10 GHz	30 dB	
	18 GHz	N/A	