



MATERIAL DATA SHEET

MATERIAL REFERENCE: 1D/2

TC Shielding material reference 1D/2 is an extrudable grade silicone elastomer with Silver/Aluminium conductive filler. It is 65 shore A in hardness and tan in colour.

The material is specially compounded for the extrusion process to offer excellent physical and electrical properties over an effective temperature range of -50 to + 160°C.

Silicone offers excellent performance over a wide temperature range with good resistance to chemicals and weathering.

Its resistance to mineral based fluids is limited, but it has good splash contact resistance to most mineral oils and greases.

Physical Properties:

	<i>Test methods</i>	<i>Typical values:</i>
Hardness (IRHD)	ASTM D-2240	65
Specific gravity (g/cc)	ASTM D-792	2.00
Tensile strength (MPa)	ASTM D-412	0.90
Elongation %	ASTM D-412	175 min
Compression set % 72 hrs @ 100°C	ASTM D-395	30 max

Electrical properties:

Volume resistivity (Ohm/cm)	Mil-G-83528	0.008 max
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Shielding effectiveness (Mil-G-83528)dB:

(Mil std 285 procedure)

200KHz ("H" Field)	70
100MHz	100
500MHz	100
2GHz	100
10GHz	100

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