



MATERIAL DATA SHEET

MATERIAL REFERENCE: 1J/3

T C Shielding material reference 1J/3 is a 60 shore A extrusion grade of silicone elastomer with Nickel/Graphite conductive filler. It is dark grey in colour.

The material is specially compounded to offer excellent physical and electrical properties over an effective temperature range of -50 to + 160°C and is based on fully reacted silicone polymer chemistry

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:

Test methods

Typical values:

Hardness (IRHD)	ASTM D-2240	60 ± 5
Specific gravity (g/cc)	ASTM D-792	1.99
Tensile strength (MPa)	ASTM D-412	1.00 min
Elongation %	ASTM D-412	100 min
Compression set % 72 hrs @ 100°C	ASTM D-395	30 max

Electrical properties:

Volume resistivity (Ohm/cm)	Mil-G-83528	0.10-0.50*
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* **max, resistivity depends on section.**

Shielding effectiveness (Mil-G-83528)dB:

(Mil std 285 procedure)

200KHz	70
100MHz	95
500MHz	90
2GHz	90
10GHz	90

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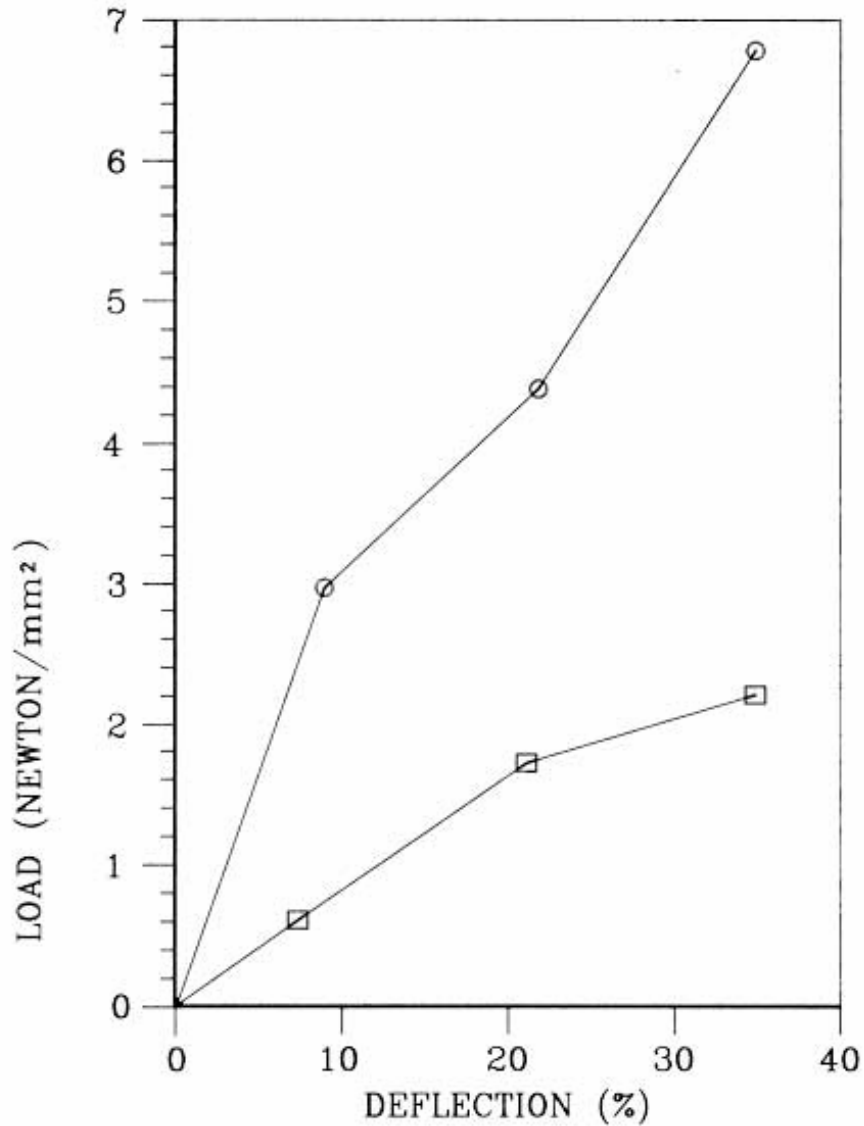
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COMPRESSION DEFLECTION TEST ON EXISTING AND RECENTLY DEVELOPED NICKEL GRAPHITE EXTRUSION SYSTEMS



- 1J/2 Nickel Graphite Silicone (Shore A Hardness=80°)
- 1J/3 (EDM176) Nickel Graphite Silicone (Shore A Hardness=60°)

Sample Tested Was Flat Solid Section Sheet Material

