

Pure Silver Loaded Silicone

Material Reference: EC-S

P & P Technology material reference EC-S is a silicone elastomer with Silver conductive filler. It is tan in colour.

The material is specially compounded to offer excellent physical and electrical properties over an effective temperature range of -50 to + 150°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.

<u>Physical Properties</u>	<u>Test methods</u>	<u>Typical values</u>
Hardness (IRHD)	ASTM D-2240 75	
Specific gravity (g/cc)	ASTM D-792	3.20
Tensile strength (Mpa)	ASTM D-412	1.25
Elongation %	ASTM D 412	100 min
Compression set % 72 hrs @ 100°C	ASTM D-395	30 max
Low temp flexibility	TR10 (C)	-55
Tear strength (N/mm)		8.75
<u>Electrical properties</u>		
Volume resistivity (Ohm/cm)	Mil-G-83528	0.002 max

Shielding effectiveness (Mil-G-83528)dB

(Mil std 285 procedure)

200KHz	70
100MHz	115
500MHz	115
2GHz	115
10GHz	115

