

Silver Copper Loaded Silicone

Material Reference: EC-H

P & P Technology material reference EC-H is a printing grade silicone elastomer with a Silver/Copper conductive filler and is Tan in colour.

The material is specially compounded to offer excellent physical and electrical properties over an effective temperature range of -55°C 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 resistance to most mineral oils and greases.

<u>Physical Properties</u>	Test methods	Typical values:
Hardness (IRHD)	ASTM D-2240	60 ±5
Specific gravity (g/cc)	ASTM D-792	3.5 ±0.1
Tensile strength (Mpa)	ASTM D-412	2.1
Elongation % Min.	ASTM D-412	110 min
Compression set % 72 hrs @ 100°C	ASTM D-395	30 max

Electrical properties

Volume resistivity (Ohm/cm)	Mil-G-83528	0.005Ω max
-------------------------------	-------------	------------

Shielding effectiveness (Mil-G-83528) dB:

(Mil std 285 procedure)

200KHz	75dB
100MHz	100dB
500MHz	105dB
2GHz	101dB
10GHz	110dB

February1998K



P & P Technology Ltd
1 Finch Drive, Springwood
Braintree, Essex, CM7 2SF, UK
Tel: +44 (0) 1376 550525 Fax: +44 (0) 01376 552389
Email: info@p-p-t.co.uk Web: www.p-p-t.co.uk

