

EC-Q(F) Nickel / Graphite / Fluorosilicone Conductively Loaded Elastomer

P & P Technology material reference EC-Q(F) is a fluorosilicone elastomer with a Nickel/Graphite conductive filler. Per MIL-G-83528. It is dark green 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.

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

It also has good resistance to most mineral oils and greases.

Physical Properties

	Test methods	Typical values:
Hardness (IRHD)	ASTM D-2240	80
Specific gravity (g/cc)	ASTM D-792	3.25
Tensile strength (Mpa)	ASTM D-412	0.75
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	0.05Ω max
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Shielding effectiveness (Mil-G-83528) dB:

(Mil std 285 procedure)

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

Transfer Impedance (SAE ARP 1105):

Shielding dB	101.50 - 112.60
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February 1998K



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