

Nickel Graphite Fluorosilicone**EC-Q(F)**

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 -55C 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	ASTM D-2240	70 (± 5) Shore A
Specific Gravity	ASTM D-792	4.8 (± 0.01) g/cc
Tensile Strength	ASTM D-412	106 lb./in. min
Elongation	ASTM D-412	340%
Compression Set 72 hrs @ 100°C	ASTM D-395	16% max

Electrical properties

Volume Resistivity	Mil-G-83528	0.01 Ω /cm max
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Shielding effectiveness (Mil-G-83528) dB
 (Mil Std. 285 procedure)

Frequency	Attenuation
100MHz	108
200MHz	112
400MHz	112
1GHz	114
2GHz	101
10GHz	107

