P & P Technology EC-Q(F) Fluorosilicone Elastomer

Category : Polymer , Thermoset , Fluoropolymer, TS , Thermoset Fluoroelastomer , Rubber or Thermoset Elastomer (TSE)

Material Notes:

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 color. 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.Information provided by P & P Technology

Order this product through the following link:
http://www.lookpolymers.com/polymer_P-P-Technology-EC-QF-Fluorosilicone-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	3.25 g/cc	3.25 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	80	80	ASTM D2240
Tensile Strength	0.750 MPa	109 psi	ASTM D412
Elongation at Break	>= 100 %	>= 100 %	ASTM D412
Compression Set	<= 30 % @Temperature 100 °C, Time 259000 sec	<= 30 % @Temperature 212 °F, Time 72.0 hour	ASTM D395

Electrical Properties	Metric	English	Comments
Volume Resistivity	<= 0.050 ohm-cm	<= 0.050 ohm-cm	Mil-G-83528
Shielding Effectiveness	101.5 - 112.6 dB	101.5 - 112.6 dB	Transfer Impedance; SEA ARP 1105
	70 dB @Frequency 200000 Hz	70 dB @Frequency 200000 Hz	Mil std 285 procedure; Mil-G-83528
	100 dB @Frequency 1.00e+8 Hz	100 dB @Frequency 1.00e+8 Hz	Mil std 285 procedure; Mil-G-83528
	100 dB @Frequency 5.00e+8 Hz	100 dB @Frequency 5.00e+8 Hz	Mil std 285 procedure; Mil-G-83528
	100 dB @Frequency 2.00e+9 Hz	100 dB @Frequency 2.00e+9 Hz	Mil std 285 procedure; Mil-G-83528

Electrical Properties	Metric	English	Comments
	100 dB @Frequency 1.00e+10 Hz	100 dB @Frequency 1.00e+10 Hz	Mil std 285 procedure; Mil-G-83528

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