

Nickel Graphite Loaded EPDM

Moulding grade conductive EPDM elastomer loaded with nickel graphite filler. The material is dark grey in colour and is specially compounded to give high EMC performance and excellent IP sealing.

The effective temperature range of the material is -45 to + 45 °C.

** EPDM materials offer resistance to Nuclear, Biological and Chemical warfare agents (NBC), and phosphate ester, and polyglycol based fluids**

Physical Properties

Test	Test Methods	Nominal values
Hardness (Shore A+/- 5)	ASTM D-2240	90
Specific gravity (gms/cc)	ASTM D-792	2.6
Tensile strength (Mpa-min)	ASTM D-412	1.60
Elongation (% - min)	ASTM D-412	90
Compression set (% max) (72 hours @ 100°C)	ASTM D-395	40

Electrical Properties

Volume resistivity (ohm/cm max)	Mil-G083528	0.5
Shielding effectiveness (dB) (Mil-G-83528/MIL std 285)	Mil-G-83528	
200 KHz "H" Field		-
100 MHz "E" Field		95
500 MHz "E" Field		90
2 GHz Plane Wave		85
10 GHz Plane Wave		85

*Values for shielding effectiveness quoted are empirical test values achieved in a test chamber to Mil std 285/Mil-G-83528 procedures. Customers should verify performance in their own application when the influences of materials, hardware and design can be fully considered.

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