



Metal Rubber™ Sensors
NSM-MR-01-D5 (pack of 5)
NSM-MR-01-D1 (1 sample)

Product Description

Metal Rubber™ is a unique self-assembled nanocomposite that combines the high electrical conductivity of metals with the low mechanical modulus of elastomers. Self-assembly processing allows the simultaneous modification of both conductivity and modulus during manufacturing. A range of mechanical properties is available upon special order. NSM-MR-01-D series is comprised of:

- Noncorrosive gold
- Low glass transition temperature (T_g) polymer matrix resin (-60 °C)



Applications for Sensors

Metal Rubber has been demonstrated in a wide range of applications including, but not limited to: large mechanical deformation sensors, mechanically flexible electrical interconnects, and lightweight, durable, conformal electromagnetic shielding.

Material Properties

- Sheet resistance:
- Mechanical strain (percent elongation):

Typical Values

1.0 to 10.0 Ω/□
225 to 250 %

Standard Product Information

Product Number	Description	Dimensions	ASTM	Thickness
NSM-MR-01-D5	Pack of 5 Dogbone Sensors	2.5" x 0.5"	D 638	0.5 mm ± 0.2 mm
NSM-MR-01-D1	1 Dogbone Sensor Sample			

NSM-MR-01-D5 may have visual anomalies that do not affect material properties.

NSM-MR-01-D1 may be slightly imperfect in size and/or color, but the physical properties are the same.

Product Information

For additional product information, please contact a NanoSonic sales representative:

Phone: 540.626.6266

E-mail: sales@nanosonic.com