



Flame Retardant Nickel Coated Graphite Conductive Silicone Elastomer

The following is a relative measurement of the electrical and mechanical properties for a flame retardant nickel coated graphite conductive silicone elastomer; tested in accordance with ASTM595 outgassing parameters both with and without conductive PSA applied.

This conductive elastomer is commonly used to replace the discontinued **GORE® GS 2100** shielding gasket material. This material is used in EMI/RFI gasketing applications and is available in sheet stock and continuous roll stock, with or without conductive pressure sensitive adhesive.

Electrical and Temperature Specifications	Tolerance	Test Method	Flame Retardant Nickel Coated Graphite
Volume Resistivity	Maximum	MIL-DTL-83528 (PARA 4.6.11)	1.0 Ohm-cm
Shielding Effectiveness 20 MHz – 10 GHz (E-Field)	Minimum	MIL-DTL-83528	114 dB
Outgassing	Maximum	ASTM E595	<1% TML
Thermal Stability	Range	-	-60°C - 220°C

Properties (General Specifications for Flame Retardant Nickel Coated Graphite Elastomer)

Hardness (Shore A)	Tensile (psi, min.)	Elongation (% min.)	Tear (“B” ppi)	UL-94 Flammability Rating	Specific Gravity
35-45	100	200	35	VO	1.9

Shelf Life: Cured material – indefinite. Cured material with PSA applied at shipment – up to 12 months.

Application: The surface that this material is to be applied to must be conductive, meaning no non-conductive paint, oils, or coatings. If a non-conductive surface is present on the mating or mounting surface the conductive elastomer, shielding effectiveness will be greatly degraded.

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The following is a relative measurement of the electrical and mechanical properties for a flame retardant nickel coated graphite conductive silicone elastomer; tested in accordance with ASTM595 outgassing parameters both with and without conductive PSA applied.

This conductive elastomer is commonly used to replace the discontinued **GORE® GS 5200** shielding gasket material. This material is used in EMI/RFI gasketing applications and is available in sheet stock and continuous roll stock, with or without conductive pressure sensitive adhesive.

Electrical and Temperature Specifications	Tolerance	Test Method	Flame Retardant Nickel Coated Graphite
Volume Resistivity	Maximum	MIL-DTL-83528 (PARA 4.6.11)	1.0 Ohm-cm
Shielding Effectiveness 20 MHz – 10 GHz (E-Field)	Minimum	MIL-DTL-83528	113 dB
Outgassing	Maximum	ASTM E595	<1% TML
Thermal Stability	Range	-	-60°C - 220°C

Properties (General Specifications for Flame Retardant Nickel Coated Graphite Elastomer)					
Hardness (Shore A)	Tensile (psi, min.)	Elongation (% min.)	Tear (“B” ppi)	UL-94 Flammability Rating	Specific Gravity
55-65	150	100	70	VO	2.0

Shelf Life: Cured material – indefinite. Cured material with PSA applied at shipment – up to 12 months.

Application: The surface that this material is to be applied to must be conductive, meaning no non-conductive paint, oils, or coatings. If a non-conductive surface is present on the mating or mounting surface the conductive elastomer, shielding effectiveness will be greatly degraded.