

GORE-SHIELD® EMI Gaskets

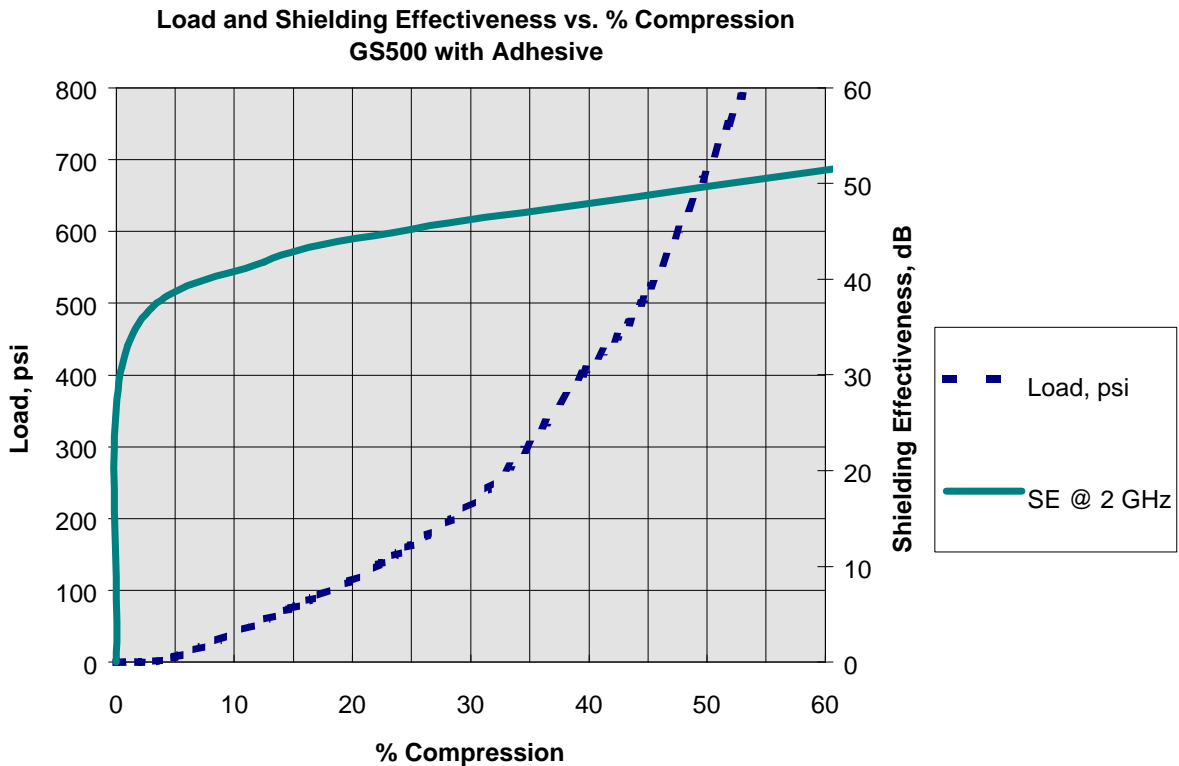
GS500 General Specifications



This specification establishes the preliminary electrical and environmental characteristics of **GORE-SHIELD®** GS500 EMI gasket material. This material consists of expanded polytetrafluoroethylene (ePTFE) that has been filled with a highly conductive carbon particle. This material is intended for use as a non-military gasketing material to suppress unwanted electromagnetic or radio frequency interference, particularly in applications where inter-cavity shielding is important or compliance with international EMC specifications.

GORE-SHIELD® GS500 EMI gasketing material is available as die-cut gaskets or in strip form. Diecut gaskets are supplied to customer dimensional specifications. Please consult W.L. Gore & Associates for further information.

<i>Nominal Material Properties</i>	
Shore A	45
Density, g/cc	0.34
Shielding Effectiveness (with adhesive)	>45 dB, 0.3- 3 GHz, 2mm wide, 25% compression, using ARP 1705 modified
Volume Resistivity	1.5 ohm-cm at 500 psi, Ag electrodes
Operating Temp. Range	-45°C to +120°C
Thickness, mils	10, 15, 20, 30, 40, 60, 80, 100, 125



INTEGRAL ADHESIVE

GORE-SHIELD® GS500 material is supplied with an integral adhesive for ease of installation. Use of adhesive affects the electrical and environmental characteristics to some extent; therefore, unless noted, the specifications contained herein do not apply to material with integral adhesive.

Adhesive is used to facilitate installation of GS500 gasket material. EMI shielding effectiveness may be degraded depending on frequency, applied force, and applications. Recommended shelf life of material with adhesive is one year.

APPLICABLE SPECIFICATIONS AND STANDARDS

The following specifications and standards apply only to the extent specified herein.

Test Methods

ASTM F36-88: Compressibility of Gasket Material.

ARP 1705 (modified): Shielding Effectiveness Technique for Measurement of EMI Gasketing Materials.

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