Gore-Shield®

GS5200 EMI GASKETS

Summary

GORE-SHIELD® GS5200 EMI Gasket is a highly conductive, adhesive-backed, EMI gasketing material that is ideally suited for wireless infrastructure and telecommunications applications.

GORE-SHIELD® GS5200 EMI Gaskets can be supplied in die-cut part forms or in slit width rolls. Slit width material is ideal for manual “peel and stick” EMI gasketing applications.

GORE-SHIELD® GS5200 EMI Gaskets consist of a nickel-filled PTFE matrix, a conductive pressure sensitive adhesive, and a PET carrier film (see Figure 1).

Applications

EMI shielding for wireless infrastructure equipment, telecommunications equipment, in addition to specialized portable electronic devices.

Design Considerations

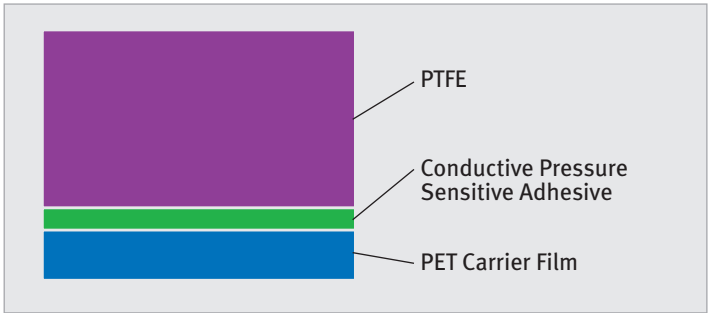
When optimizing a gasket shielding solution, consider the housing design as well as the EMI gasket performance.

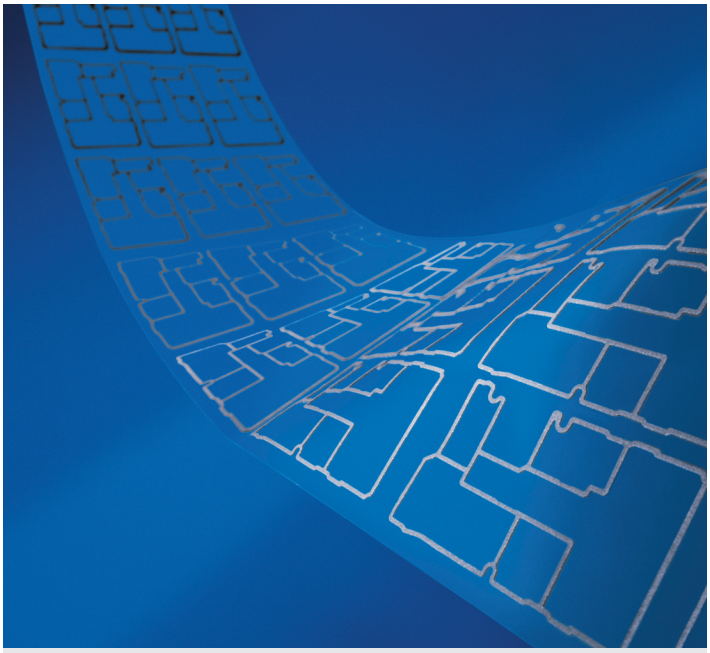
Important considerations in the housing design include flatness, surface roughness, material type, rigidity, contact area, tolerance take-up, conductivity, fastener type, and fastener locations.

Key factors in an EMI gasket include softness, tolerance take-up, conductivity (DC resistance), and shielding effectiveness both before and after Accelerated Life Testing (ALT).

Gore application engineers can provide expert design assistance and rapid prototyping for your EMI shielding needs. Contact Gore for additional information.

Figure 1





Features and Benefits

- Excellent shielding effectiveness
- Excellent reliability through Accelerated Life Testing (ALT)
- Flame retardant (UL-94 V-0)
- Broad temperature range (-45°C to 120°C)
- Years of successful use worldwide

Nominal Material Properties

Property	Value
Hardness	(Shore A) 60
Density (gm/cc)	1.95
Operating Temperature Range	-55°C to 125°C
Fire Safety Rating (UL-94)	V-0

Electrical Properties

Property	Value
Volume Resistivity (25% compression, Ag electrodes)	0.04 ohm-cm (without adhesive)
Shielding Effectiveness (with adhesive)	› 90 dB (ARP 1705 Method)

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Thickness Options (Nominal)

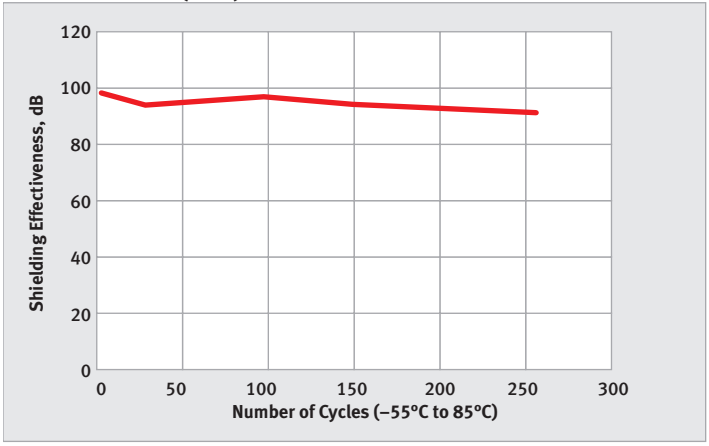
Inch	mm
0.015	0.38
0.024	0.61
0.030	0.76
0.048	1.22
0.060	1.52
0.078	1.98

RoHS Status

RoHS Material*	Pass/Fail
Lead (Pb) Content	Pass
Cadmium (Cd) Content	Pass
Hexavalent Chromium (Cr6) Content	Pass
Mercury (Hg) Content	Pass
Bromine Compounds	Pass

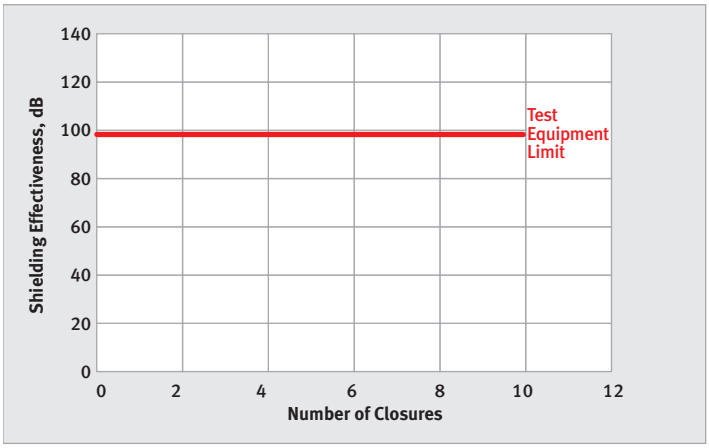
*W. L. Gore & Associates declares that we do not intentionally add substances listed in Directive 2002/95/EU to GORE-SHIELD® GS5200 EMI Gasket Material. Independent lab tests have been performed and results are available upon request.

Shielding Effectiveness through Accelerated Life Testing (ALT)



Tested in accordance with ARP 1705 (mod) at 1 GHz.

Shielding Effectiveness after Repeated Opening and Closure of Seal



Tested in accordance with ARP 1705 (mod) at 1 GHz.

W. L. Gore & Associates, Inc.

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North America
1 (800) 445-GORE (4673)

Europe
+49 9144 6010
+44 1382 561511

International
1 (302) 292 5100

China: Beijing
+86 10 6408 8060

China: Shanghai
+86 21 6247 1999

China: Shenzhen
+86 755 8359 8262

gore.com/emi

More international phone numbers can be found at gore.com/phone

Japan
+81 3 3570 8712

Korea
+82 2 393 3411

Taiwan
+886 2 8771 7799

Singapore
+65 6 733 2882

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- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
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- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
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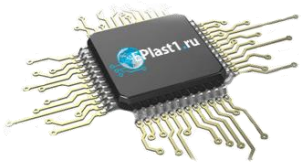
Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)
Факс: 8 (812) 320-02-42
Электронная почта: org@eplast1.ru
Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.