



HYBRID THERMAL/EMI ABSORBER

CoolZorb 500 is a 2nd generation hybrid absorber/thermal management material that is used for EMI mitigation. Product is used like a traditional thermal interface material between heat source such as an IC and heat sink or other heat transfer device or metal chassis. CoolZorb 500 also functions to suppress unwanted energy coupling, resonances or surface currents causing board level EMI issues.

FEATURES AND BENEFITS

- Designed using silicone gel binder that imparts inherent tack typical of standard thermal gap fillers
- Filler particle composition imparts both excellent thermal conductivity and good EMI suppression in the microwave frequency range with best attenuation performance at or above 5 GHz.
- CoolZorb 500 passes UL94V0 requirements
- Product does not require peel and stick adhesive when used like a traditional thermal interface material

VALUE

- Dual functional properties of thermal conductivity and EMI reduction provide two in one solution for easier design and assembly and lower cost of ownership
- Improved reliability performance of electronics
 - Better signal integrity due to reduction of EMI
 - Consistent performance of electronics due to temperature stability and low outgassing properties of product
- Improved EMC performance and resultant lower cost to meet compliance requirements
- Environmentally friendly solution that meets regulatory requirements including RoHS and REACH

| TYPICAL PROPERTIES | DATA | TEST METHOD |
|--|---------------------------|-------------------|
| Color | Dark gray | Visual |
| Thermal conductivity | 4.0W/m-K | ASTM D5470 |
| Density | 3.4 g/cc | ASTM D792 |
| Hardness | 55 Shore 00 | ASTM D2240 |
| Tensile strength | 45 psi | ASTM D638 |
| Temperature Range | -40°C to 175°C | NA |
| UL Flammability | UL94V0 | UL |
| Volume resistivity | 1 x 10 ¹¹ Ω*cm | ASTM D257 |
| Outgassing (TML) | 0.093% | ASTM E595-07 |
| Outgassing (CVCN) | 0.011% | ASTM E595-07 |
| Coefficient of Thermal Expansion (CTE) | 118 μm/mC | IPC-TM-650 2.4.41 |
| EMI Attenuation @ 5 GHz | 9.4 dB/cm | |
| EMI Attenuation @ 15 GHz | 17.3 dB/cm | |
| Standard Thickness range | .020"-.125" (0.5-3.1mm) | |
| Thickness Tolerance | +/- .005" (+/- .127mm) | |

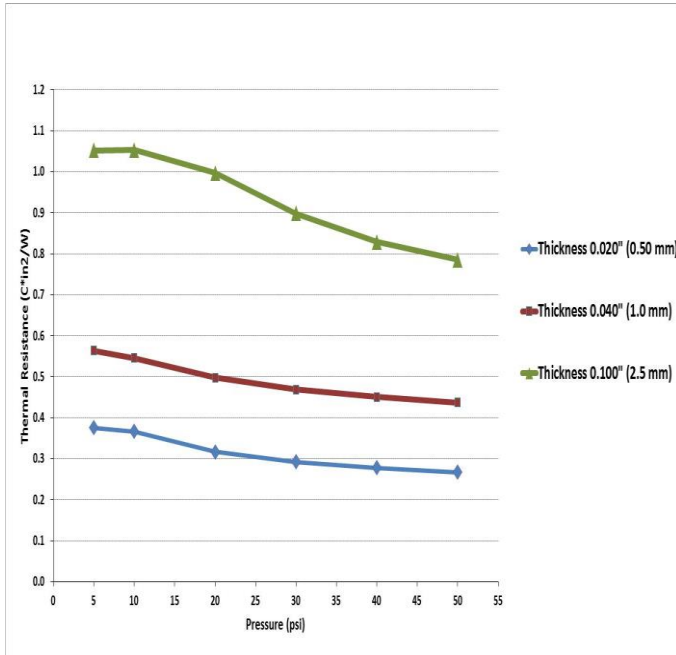
Americas: +1.866.928.8181

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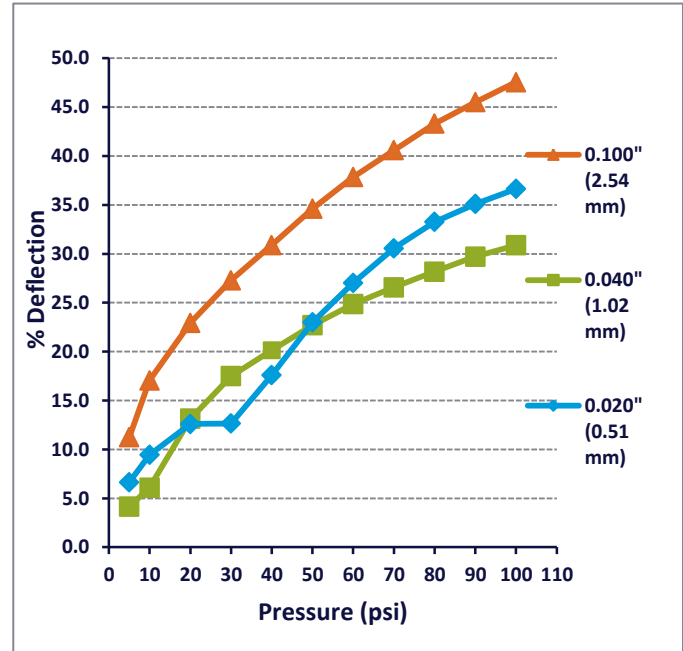
Asia: +86.755.2714.1166

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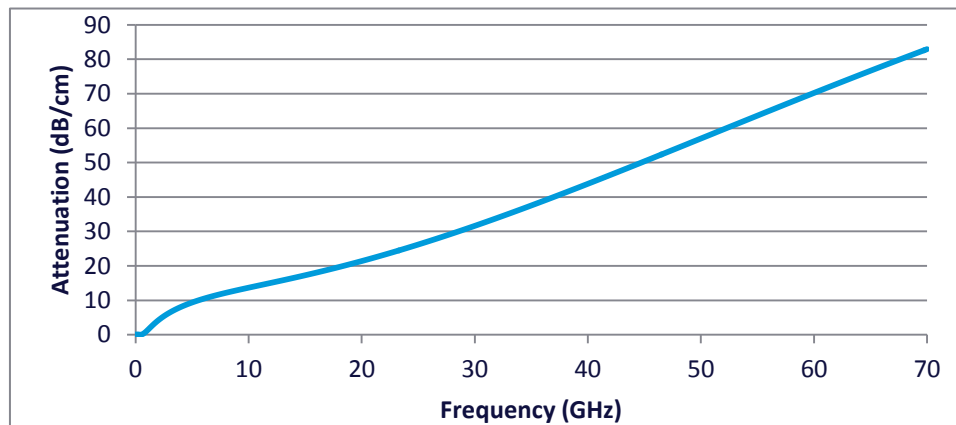
CoolZorb 500 Thermal resistance at 100C (ASTM D5470)



CoolZorb 500 Percent Deflection (ASTM D575)



CoolZorb 500 Attenuation (dB/cm)



AVAILABILITY

- Standard sheet size is 12" X 12"
- Thickness availability range is .020" - .125" (0.5mm- 3.1mm)
- Common standards for thickness are .020", .040", .060", .080", .100" and .125" thickness (0.5mm, 1.0mm, 1.5mm, 2.0mm, 2.5mm and 3.1mm)
- No charge samples are available in 4" X 4" size for each of the above common thicknesses

PART NUMBER SYSTEM

- CoolZorb 500 series absorber sheets (12"X12") use the following designation when ordering: CZ500-XXX where XXX is thickness of absorber in thousands of an inch
- CoolZorb 500 series no charge absorber samples (4"X4") use the following designation when ordering: CZ500S-XXX where XXX is thickness of absorber in thousands of an inch

RFP-DS-COOLZORB 500 110915

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- Example: CZ500-020 = CoolZorb 500, .020"X12"X12" sheet size; Example: CZ500S-040 = CoolZorb 500, .040"X4"X4 no charge sample size

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- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

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«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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