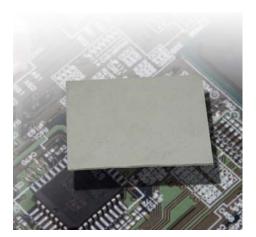


Hybrid Thermal/EMI Absorber

CoolZorb-Ultra



HYBRID THERMAL/EMI ABSORBER

CoolZorb-Ultra series is a higher performance and silicone free hybrid absorber/thermal management material with ultra-high thermal conductivity of $11.\,5$ W/m.K. CoolZorb-Ultra is designed to be used like a traditional thermal interface material between heat source such as a high-power IC and heat sink or other heat transfer device or metal chassis. CoolZorb-Ultra also functions to suppress unwanted energy coupling, resonances or surface currents causing board level EMI issues.

FEATURES AND BENEFITS

- Very high thermal conductivity to meet industry trend of increasing IC power
- Good EMI suppression over wide frequency range, particularly over 25GHz
- Silicone free formulation make it suitable for silicone sensitive application
- Inherent surface tack typical of standard thermal gap fillers
- Compliant with minimal component stress during assembly
- CoolZorb Ultra passes UL94V0 requirements

VALUE

- Performance advantage comes from dual functional properties of thermal conductivity and EMI reduction
- 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 to meet compliance requirements
- Environmentally friendly solution that meets regulatory requirements including RoHS and REACH

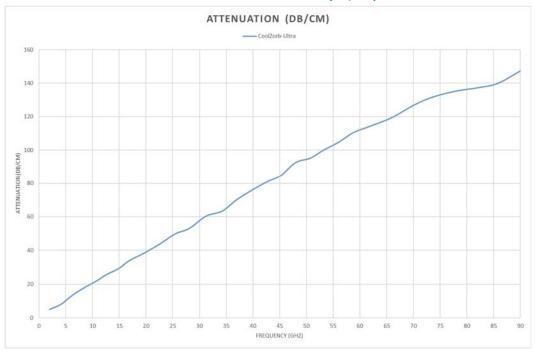
TYPICAL DATA	TEST METHOD
Dark gray	Visual
11.5W/m.K	Hot Disk
2.96	ASTM D792
58 Shore 00	ASTM D2240
31 Shore 00	
7%	ASTM D575
39%	ASTM D575
-40°C to 125°C	NA
UL94 V-0	UL
6x10 ¹⁶ Ω*cm	ASTM D257
0.29%	ASTM E595-07
0.14%	ASTM E595-07
1.85KV	ASTM D149
1.34KV	ASTM D149
0.5-4mm	
None over 96 hours	
	Dark gray 11.5W/m.K 2.96 58 Shore 00 31 Shore 00 7% 39% -40°C to 125°C UL94 V-0 6x10 ¹⁶ Ω*cm 0.29% 0.14% 1.85KV 1.34KV 0.5-4mm

Americas: +1.866.928.8181 Europe: +49.(0).8031.2460.0 Asia: +86.755.2714.1166

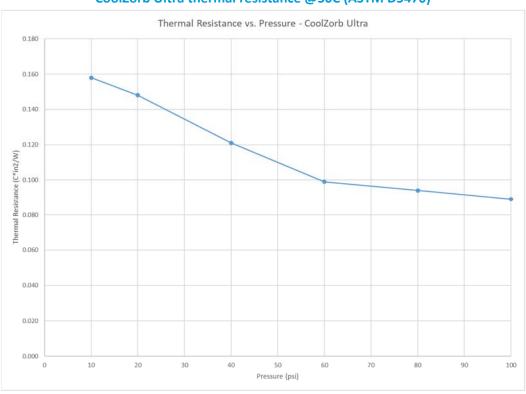


Hybrid Thermal/EMI Absorber

CoolZorb Ultra Attenuation (dB/cm)



CoolZorb Ultra thermal resistance @50C (ASTM D5470)



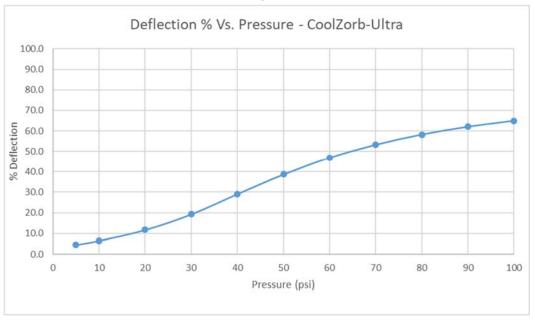
MFS-DS-COOLZORB Ultra 20210127

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Hybrid Thermal/EMI Absorber

CoolZorb Ultra Percentage Deflection (ASTM D575)



AVAILABILITY

- Standard sheet size is 18" X 18"
- Thickness availability range is 0.040" 0.16" (1mm-4mm)
- Thickness available on special request 0.020" (0.5mm)
 - Requires peel and stick application
- Common standards for thickness are available with 0.02" incremental.
- No charge samples are available in 4" X 4" size for each of the above common thicknesses

PART NUMBER SYSTEM

- PRODUCTION sheets (18"X18") use the following designation when ordering: A18181-XXX where XXX is the sheet thickness in thousandths of an inch, example A18181-040 for 0.040"x18"x18"
- SAMPLE sizes of 0.020", 0.030", 0.040", 0.060" and 0.080" thicknesses are available without charge. 4" x 4" pieces are ordered with the part numbers A18183-020, A18183-030, A18183-040, A18183-060 and A18183-080. Other sizes may be available with NRE charge.