



HYBRID THERMAL/EMI ABSORBER

CoolZorb 200 is a hybrid absorber/thermal management material that is used for EMI mitigation and heat dissipation. It 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 200 also functions to suppress unwanted energy coupling, resonances or surface currents causing board level EMI issues.

PRELIMINARY PROPERTIES	DATA (Temp 75-33-4)	TEST METHOD
Color	Dark gray	Visual
Thermal conductivity	1.7 W/mK	Hot Disk
Thermal conductivity	1.4 W/mK	Increasing pressure on 1mm pad
Density	3.16 g/cc	ASTM D792
Hardness; 3 seconds	56 Shore 00	ASTM D2240
10 % Deflection of 1mm pad	50 psi	ASTM D575 w/ 25.4x 25.4mm pad deflected 25.4 mm/min
30 % Deflection of 1mm pad	125 psi	ASTM D575 w/ 25.4x 25.4mm pad deflected 25.4 mm/min
Tensile strength	34 psi	ASTM D638
Resilience %	91.2%	ASTM D395 on 240mil pad; 25% defl.@ RT; $(T_2-T_1)/(T_0-T_1)$
Weight loss	0.26%	TGA; 12 hours at 200°C
Surface resistivity	$2 \times 10^{10} \Omega$	ASTM D257
Flammability Rating	V1 or V0 predicted	UL 94
Temperature Range	-40°C to 175°C	

