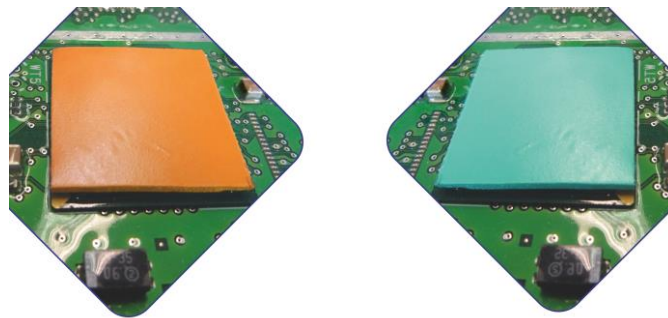


Hybridní materiály kombinující teplovodivost a EMI funkci

Výrobce Kerafol přichází s řešením v oblasti odvodu tepla a potlačení nežádoucích elektromagnetických interferencí (EMI) u polovodičových integrovaných prvků prostřednictvím svých produktů Kerabsorb 1500 a Kerabsorb 2500. Oba produkty kombinují vlastnosti teplovodivých materiálů s velkou tepelnou vodivostí a současně efektivně omezují rušivá EMI vyzařování. Materiály dosahují útlumu elektromagnetické interference o více než 40 dB, a to až do frekvence 77 GHz. Kerabsorb 1500 se skládá ze dvou vrstev 86/225, mezi nimiž je umístěn materiál absorbující EMI. Kerabsorb 2500 obsahuje dvě vrstvy 86/325, mezi kterými je vložen materiál, který omezuje EMI.



Kerabsorb 1500 a Kerabsorb 2500

Vlastnosti

- potlačení elektromagnetických jevů nezávisí na tloušťce materiálu
- útlum EMI až do 77 GHz
- pružnost

Technická data

Kerabsorb 1500

Properties	Unit	1500
Colour		orange
Thermal Properties*		
Thermal conductivity λ	W/mK	1.5
Electrical Properties*		
Dielectric breakdown voltage $U_{d,ac}$ **	kV	5.0
EMI Attenuation***	dB	>40
Mechanical Properties		
Hardness	Shore 00	35 - 45

* Measured @ thickness 1 mm ** measured uncompressed *** measured @ 45 & 77 GHz

Kerabsorb 2500

Properties	Unit	2500
Colour		mint
Thermal Properties*		
Thermal conductivity λ	W/mK	2.5
Electrical Properties*		
Dielectric breakdown voltage $U_{d,ac}$ **	kV	8.0
EMI Attenuation***	dB	>40
Mechanical Properties		
Hardness	Shore 00	35 - 50

* Measured @ thickness 1 mm ** measured uncompressed *** measured @ 45 & 77 GHz

Pozn. Kerafol upozorňuje na to, že produkty SOFTTHERM by neměly být stlačovány na více než 30% původní tloušťky, jinak ztrácejí deklarované vlastnosti.

Použití

- technologie 5G
- autonomní vozidla
- radarové senzory

Dokumentace k produktům Kerabsorb 1500 a Kerabsorb 2500

Kerabsorb 1500



preliminary DATA SHEET

EMI Absorber

Kerabsorb 1500
 high thermal conductivity

Applications

- ◆ 5G Technologies
- ◆ 5G Data Infrastructure
- ◆ Consumer electronics
- ◆ Autonomous vehicle
- ◆ Radar sensors

Benefits

- ◆ Good thermal conductivity
- ◆ High EMI suppression @ frequencies up to 77 GHz
- ◆ layer thickness independent electromagnetic properties
- ◆ High electrical isolation
- ◆ Elastic



Properties	Unit	1500
Colour		orange
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The new series KERABSORB is a HYBRID material of THERMAL & EMI ABSORBER. This means, besides the classic properties of a TIM (thermal interface material) that is used between the heat source (electronic device) & heat sink, this new material also suppresses unwanted energy coupling, resonances or surface currents which cause board level EMI issues.

The Kerabsorb 1500 is characterized by its high thermal conductivity and high level of EMI suppression at very high frequencies up to 77 GHz.

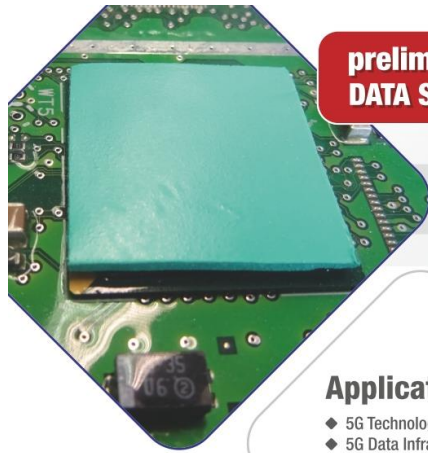
Attention

At maximum pressure, Gap Pads (Softtherm Films) should not be compressed beyond 30% of the original thickness. In case the material should be compressed more than 30%, the SOFTTHERM® material may leak out.

Data for engineer guidance only. Observed performance varies in application. Engineers are reminded to test the material in application.

www.kerafol.com

Kerabsorb 2500



**preliminary
 DATA SHEET**

EMI Absorber

Kerabsorb 2500
 high thermal conductivity

Applications

- ◆ 5G Technologies
- ◆ 5G Data Infrastructure
- ◆ Consumer electronics
- ◆ Autonomous vehicle
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The Kerabsorb 2500 is characterized by its high thermal conductivity and high level of EMI suppression at very high frequencies up to 77 GHz.

Properties	Unit	2500
Colour		mint
Thermal Properties*		
Thermal conductivity λ	W/mK	2.5
Electrical Properties*		
Dielectric breakdown voltage $U_{br,ac}$ **	kV	8.0
EMI Attenuation***	dB	>40
Mechanical Properties		
Hardness	Shore 00	35 - 50

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