KLEBER

NYS-SORBER® AB 1000 Thermal Microwave Absorber

Thermal Microwave Absorber, as the name implies, can both absorb microwaves and conduct heat. With polymer silicon as substrate, thermal microwave absorber is a compound of ceramic powder, magnetic filler and corresponding additives. The product can achieve thermal conduction and microwave absorption at low compression force, and it has good insulation properties and environmental stability.

NYS-SORBER® AB 1000 is a blended absorber/ thermal management material that is used for EMI mitigation. It can be applied like a traditional thermal pad between heat source and heatsink or other device need heat transfer. Its thermal conductivity can be Up to 10W/mK, it can help design engineers solve EMI compatibility and thermal management issues originating from specific components or circuit boards at the same time.



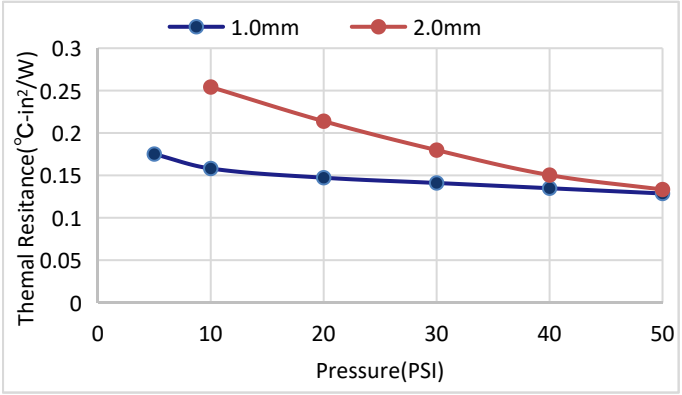
SPECIFICATIONS

Typical Performance		NYS-SORBER® AB 1000			Unit		Test Method
Color		Gray			-		-
Resin System		Silicone			-		-
Hardness		55+/-5			Shore OO		ASTM 2240
Density		3.4			g/cm^3		ASTM D792
Working Temperature		-45~+150			℃		ASTM D1329
Volume Resistivity		≥10^9			Ohm-cm		ASTM D257
Breakdown Voltage		4.5			KV		ASTM D149
Flammability Rating		V-0			-		UL94
Thermal Conductivity		10			W/m-K		ASTM D5470
Thermal Resistance @2mm	Pressure PSI	10	20	30	40	50	ASTM D5470
	Thermal resistance (℃-in^2/w)	0.25	0.21	0.18	0.15	0.13	

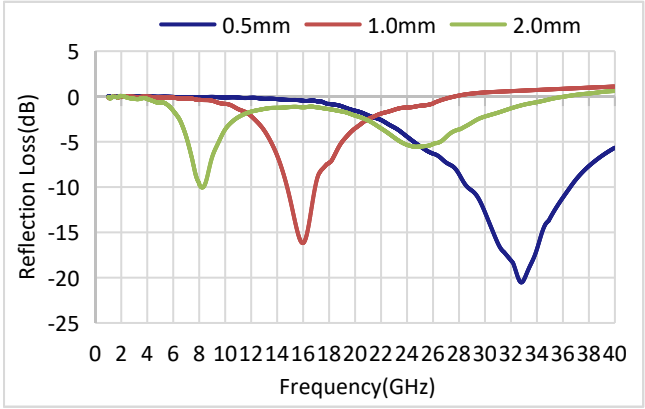
FEATURES & BENEFITS

- Soft like a thermal gap filler material.
- Thermal conductivity up to 10W/mK.
- Thickness range: 0.5~5mm.
- Both microwave absorptive & thermal conductive.
- Product does not require peel and stick adhesive when used like a traditional thermal interface material due to its tacky, compliant properties.
- UL Flammability: V-0.

THERMAL RESISTANCE VS. PRESSURE(T=1.0mm & 2.0mm)



REFLECTION LOSS CURVE(T=0.5mm & 1.0mm & 2.0mm)



Declare
The recommendation and data furnished by Kleber is based on our experiment and experience to date.This information is intended for use only by customers who have the requisite experience and capability to determine the correct products for their application.Kleber shall not be liable for their usage and processing. The technology data sheet is subject to change without notice. The final interpretation right of the contents of this specification belongs to Kleber.