

Electromagnetic Noise Absorbent Gel

λGEL® RE

◆ Lambda GEL/RE ◆

Minimizing EMI noise in new all-in-one solution for electromagnetic noise, heat and shock.



About λGEL RE series

- ◆ λGEL RE Series sheets have both electromagnetic noise absorbent and thermal conductive characteristics.
- ◆ λGEL RE Series sheets adhere to rough surface with its softness, and show excellent heat dissipation and electromagnetic absorbing performance.
- ◆ λGEL RE Series sheets are good electrical insulators and are flame retardant.
- ◆ λGEL RE Series sheets are usable over a wide range of temperature range.

Product Line

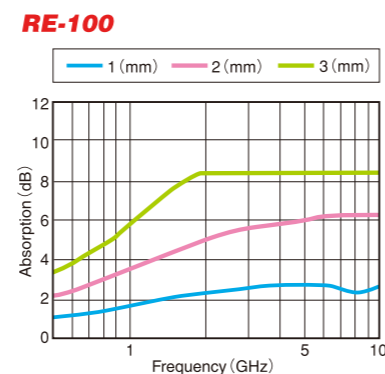
Product	Features
RE-100	Thermal conductive and electromagnetic noise absorbent type
RE-100H	EM noise shielding material applied on one side of RE-100

Typical Properties

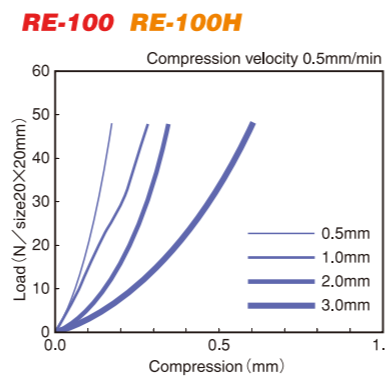
Item		RE-100	RE-100H	Remark
Thermal conductivity (W/m·K)	Our tests	2.0		—
	Hot Wire Method ^{※1}	1.0		JIS R 2616
Hardness (Needle penetration·1/10mm)		60		JIS K 2207
Appearance		Black		—
Specific gravity		2.9		JIS K 6249
Volume resistivity (Ω·cm)		2×10 ¹¹		JIS K 6249
Dielectric breakdown voltage (kV/mm)		4.5	10.0	JIS K 6249
Low molecular weight siloxane level ΣD4-10 (ppm)	Solvent extraction method	less than 300		—
	Head space Method ^{※2}	less than 1		—
Flame retardance		V-1 (0.5~2mmt) V-0 (3.0mmt)	—	UL94
RoHS controlled substances		Not detected		—
Temperature range (°C)		-40~150		—
Other Specification		—	w/Reflective layer and adhesive tape	—



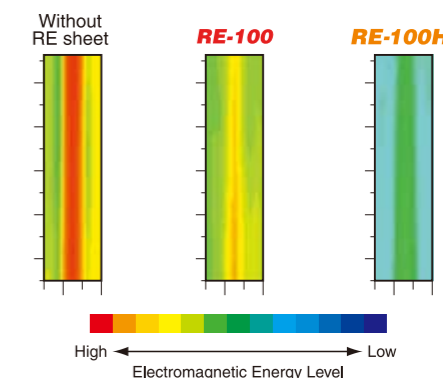
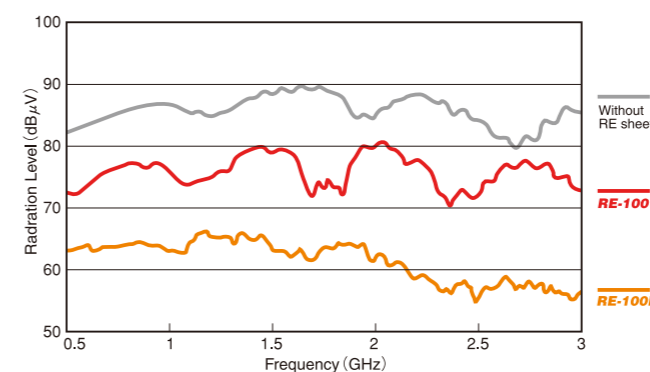
【Return Loss】



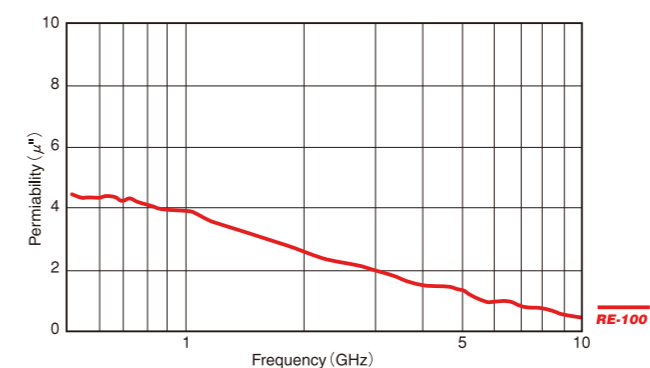
【Compression】



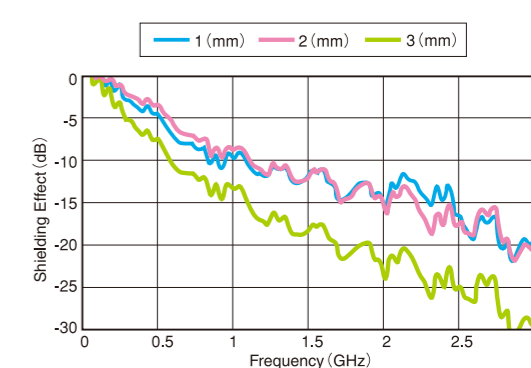
【Electromagnetic Noise Absorption (Microstripline 0.5~3GHz sheet = t1.0mm)】



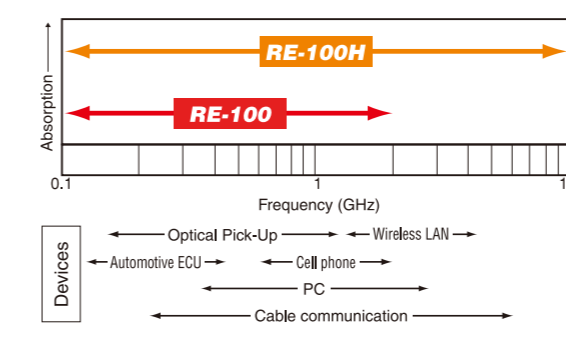
【Electromagnetic Noise Absorption】 RE-100



【Shielding Effect】 RE-100H



【Frequency Range】



Directions

- ◆ **RE-100 is protected by the films on both sides.**
 - Slowly peel off one side of the protective film of RE-100.
 - Carefully place the RE-100 sheet on the heat source or heatsink without trapping air.
 - Peel the remaining layer from RE-100 with no air trapped in between the sheet and heat dissipating device or heat generating device.
- ◆ **RE-100H has logo-film on one side and an adhesive tape on the other side.**
 - Peel off the separator on the adhesive tape side, place and fix RE-100H on the enclosure.
 - After fixation, peel off the logo-film, place the heat source or heatsink on RE-100H without trapping air.

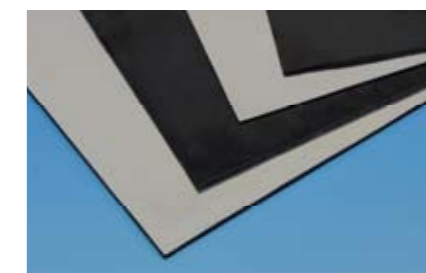
Delivery Format

【Basic Specifications】

Sheet size	400mm×400mm
Sheet thickness	0.5、1.0、2.0、3.0mm

【Custom Products】

λGEL RE can be tailored for the application by a custom sheet size, thickness, tackiness of the surface, or the kinds of separator films.



※1 Hot Wire Method : Using the QTM -500 Quick Thermal Conductivity Meter, from Kyoto Electronics Manufacturing Co., LTD.
 ※2 Head Space Method : at 70°C