



# Thermal Management & Microwave Absorption Gel

## SY- MGM652

### Technical Data Sheet

Version Number: A-a

#### ❖ Product Introduction

MGM652 is a two-component curable material that combines thermal management and EM energy absorbing. This material is designed to be used between heat source (such as IC) and heat sink or other heat transfer device. This product can effectively suppress EMI/EMC issues inside the devices, and has the advantages of high thermal conductivity, excellent absorption performance, low compression stress, halogen-free environmentally friendly, etc.

#### ❖ Product Structure

- Syringe: 50mL, 300mL

#### ❖ Product Performance

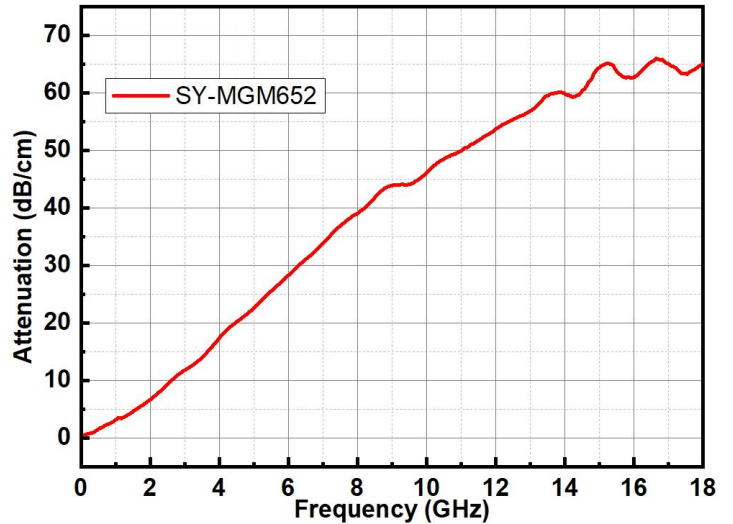
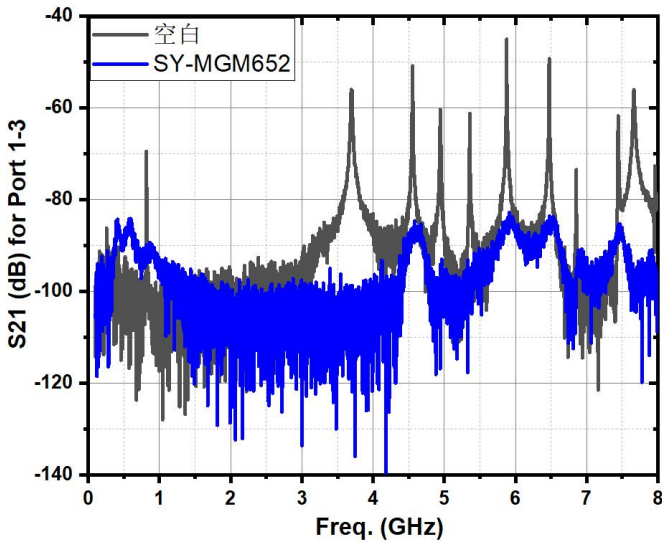
- Combines excellent thermal conductivity and microwave absorption performance;
- High reliability; Low compression stress.

#### ❖ Features

Properties	Unit	Specifications		Test Standard
		A-component	B-component	
Color	/	Dark Gray Liquid	Dark Gray Liquid	Visual Inspection
Mixing Ratio(Volume)	/	1:1		/
Operating Time (Viscosity doubles)	h	≥2(@25°C)		/
Flow Rate	g/min	15~30		90psi, 21 section mixing tube
Density	g/cm <sup>3</sup>	3.8±0.3		ASTM D792
Hardness	Shore OO	75±7		ASTM D2240
Surface insulation resistance	Ω	≥1.0×10 <sup>8</sup>		/
Volume Resistivity	Ω·cm	≥1.0×10 <sup>9</sup>		ASTM D257
Dielectric Strength(AC)	V/mm	≥200		ASTM D149
Thermal Conductivity	W/m·k	≥6.0		ASTM D5470
Thermal Resistance(@1mm)	°C·cm <sup>2</sup> /W	≤1.77		ASTM D5470
Oil extraction rate	%	≤ 0.5		/
Absorption efficiency @ 0.1~6GHz	dB	≤ -80		/
Temperature range	°C	-40~125		/
Environmental requirement	/	Halogen free and Meet standard of RoHS 2.0, Reach		/

Note: The reliability test and other test data of this series of products can be provided according to the specific design requirements of customers.

### ❖ Characteristic curve



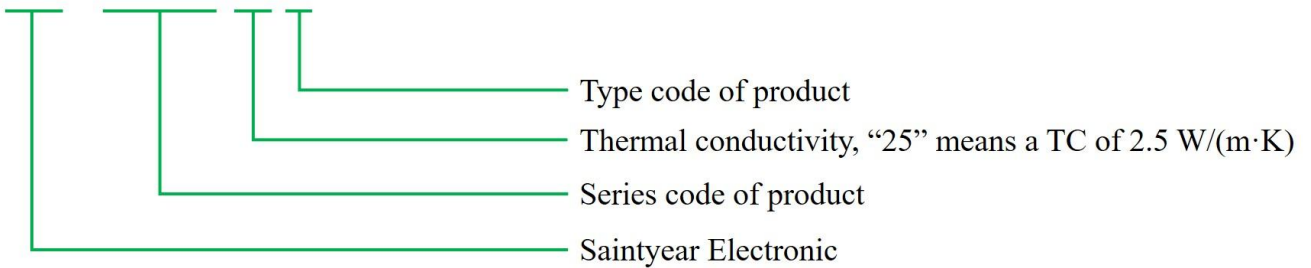
Note: The data listed are typical values for laboratory tests and should not be considered as a technical specification.

### ❖ Duration and Storage Condition

- Best if Used Before: 6 months.
- Best Storage Condition: 15°C~35°C/0~65%RH in packing case.

### ❖ Naming Rules

S Y - M G M 2 5 1



Special Declaration: We suggest user do adaptability test before the formal use of this product. Due to the diversity of practical application, our company do not guarantee that the problem appear in a specific condition, thus our company will not be responsible for any direct, indirect or accidental damage. You can contact my company's after-sales service when problems encountered in the use, we will try to help you