

GLT-SF2, GLT-SF3

Silicone Free Thermal pad

INTRODUCTION

Silicone Free Thermal pad is a curing molding material with carrier of acrylic adhesive and filled with thermal material. It has good insulating properties, excellent resistance to aging, high flexibility and good self-adhesive, even after prolonged use would not be oil leakage. Especially suitable for the silicone oil sensitive situation, therefore they are widely used in high-end electronic industry such a high sensitivity detector and high-definition cameras.

FEATURES

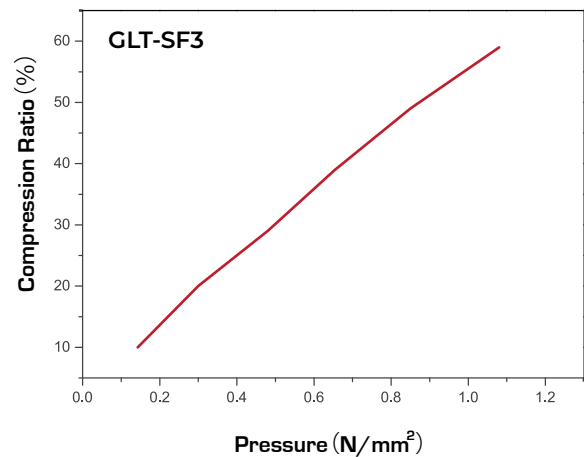
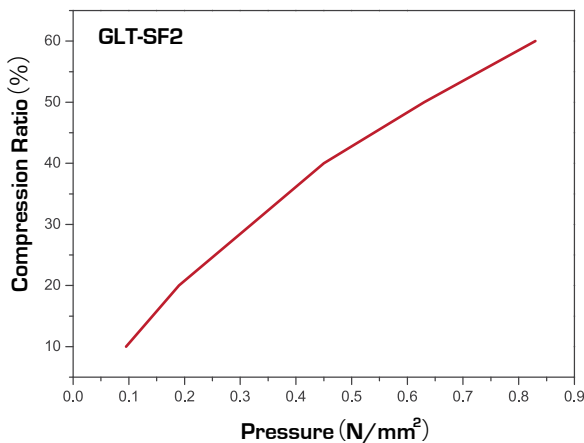
- Without silicon components
- High thermal conductivity property
- Good flexibility, high strength and high elastic

APPLICATIONS

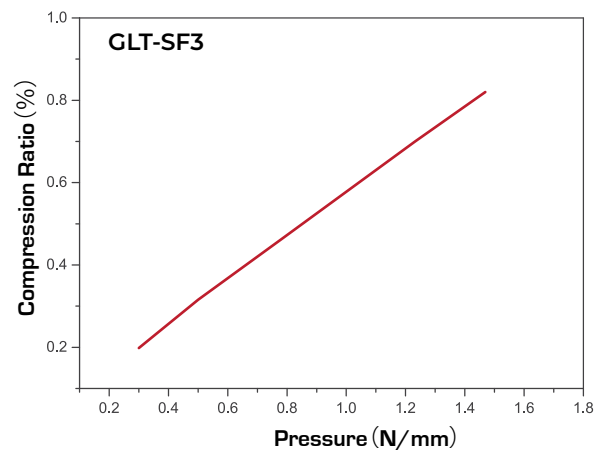
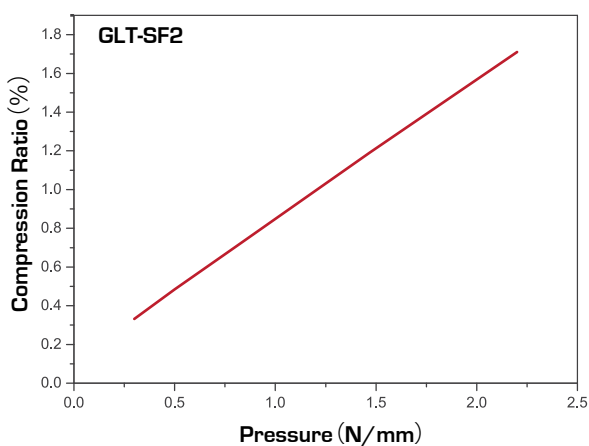
- Mobile electronic equipment
- Microprocessors and chips
- Automotive engine control unit
- Electronic Consumer Devices (Laptop, Handphone,...)
- Wireless communication

PERFORMANCE DIAGRAM

1. Compress Ratio vs. Pressure diagram, Tested by H200Y35@3mm/H300S35@3mm, different thickness and hardness will be slightly affected test result.



2. Thermal Resistance vs. Thickness diagram



PROPERTIES

Items	Value		Test Instrument	Test Method
	GLT-SF2	GLT-SF3		
Color	Gray White	Gray White	Visual	—
Thickness (mm)	0.5~3	0.5~3	PEACOCK THICKNESS METER	ASTM D 374
Specification	Can be Customize	Can be Customize	DIGITAL CALIPER	ASTM D 5947
Density (g/cc)	2.7±0.5	2.9±0.5	ZMD-2 ELECTRONIC DENSIMETER	ASTM D 792
Hardness (Shore C)	35~50(±5)	35~50(±5)	LX-C CELLULAR MATERIAL DUROMETER	ASTM D 2240
Tack	6±1	5±1	PH-520 TACK TESTER	GB/T 4852-2002
Thermal Conductivity (W/m-K)	2.0±0.2	3.0±0.25	LW-9389 THERMAL CONDUCTIVITY TESTER	ASTM D 5470
Thermal Resistance (°C in 2/W) (@20psi & 1mm)	≤0.7	≤0.6	LW-9389 THERMAL CONDUCTIVITY TESTER	ASTM D 5470
Breakdown Volta KV (@1mm)	≥8	≥8	MS2676A WITHSTAND VOLTAGE TESTER	ASTM D 149
Volume Resistivity (Ω.cm)	≥10 ⁸	≥10 ⁸	ZC-36 HIGH DIELECTRIC RESISTANCE TESTER	ASTM D 257
Compression Ratio (%) (@50psi)	≥25	≥25	HY939CS COMPRESSIVE FORCE TESTER	ASTM D 575
Tensile Strength (MPa)	≥0.15	≥0.15	HY939CS TENSION TESTER	ASTM D 412
Elongation (%)	≥80	≥80		
Dielectric Constant (@1MHz)	≥2	≥2	WY2851D DIGITAL Q METER	ASTM D 150
Dielectric Loss	≤0.1	≤0.1		
UL Certify	UL94 V0	UL94 V0	FLAME RATING TESTER	UL 94
Volatile matter	0.04	0.04	Operating Temperature	—
Operating Temperature (°C)	-40~150	-40~150	PROGRAMMABLE THERMAL SHOCK TESTER	IEC 60068-2-14

SPECIFICATIONS

Dimension: 200mm×400mm, can be customer-made..

Thickness: Various thicknesses for option, Available from 0.5mm to 3mm.

TOLERANCE

Thickness(mm): 0.5≤H<1 ±0.1; 1≤H<1.5 ±0.15; 1.5≤H<2 ±0.2; 2≤H<2.5 ±0.25; H>2.

ENVIRONMENTAL REQUEST

The series of products accord with standers of ROHS and HALOGEN.