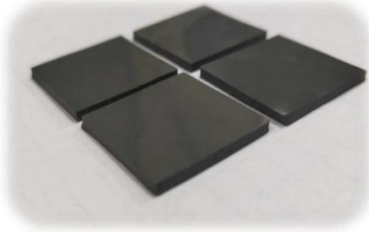




H300MAS series

【Thermal Gap Filler】

DATA SHEET



-Product picture-

FEATURES:

- Double advantages of electromagnetic wave absorption and heat conduction
- Low thermal resistance
- Good surface compatibility and self-adhesive
- High fire resistance
- Application under low pressure
- Excellent electrical insulation performance

APPLICATIONS:

- Between chip and cooling module
- Optoelectronics industry
- Netcom products
- Automotive Electronics
- Wearable devices
- 5G base station

This series of products are environmentally compliant with RoHS 2.0, halogen, and REACH standards.

STORAGE CONDITIONS : Storage in the darkness

STORAGE TEMPERATURE : ≤ 30 °C

STORAGE HUMIDITY : ≤ 70%

The height of the stacking should not be more than 7 layers and the total height should not be more than 1m.

SHELF LIFE :

Under storage conditions: 2 year

HFC high-frequency thermal electromagnetic wave absorption sheet H300MAS is a kind of dual-function composite material that combines thermal management and electromagnetic wave absorption functions. It not only has good elasticity and compressibility, but also has strong surface viscosity and excellent operation, applied between integrated circuits, heat sinks, other heat-conducting components and metal substrates, in addition to solving the problem of heat conduction in materials, it can also suppress unnecessary electromagnetic energy coupling, resonance and EMI problems caused by electromagnetic interference. In the era of high-frequency transmission, the product has broad application prospects.

PROPERTIES

Items	Parameter	Unit	Test Method
colour	Gray-black	---	Visual
Thickness Range	0.5~3	mm	ASTM D 374
Hardness Range	30~55	Shore C	ASTM D 2240
Density	3.8	g/cc	ASTM D 792
Tensile Strength	≥0.1	Mpa	ASTM D 412
Elongation	≥150	%	ASTM D 412
Tear strength	≥0.6	N/mm	ASTM D 624
Oil yield	< 1	%	---
Use frequency band	> 20	GHz	GJB 2038A-2011
Flammability rating	V-0	---	UL-94
Operating temperature	-40~160	°C	IEC 60068-2-14

THERMAL CHARACTERISTIC

Thermal conductivity	3.0	W/m·K	ASTM D 5470
Thermal resistance	≤1.3(@20psi&2mm)	°Cin ² /W	ASTM D 5470

ELECTRICAL PROPERTIES

Breakdown voltage	≥2	kV /mm	ASTM D 149
Volume resistivity	≥10 ¹²	Ω.cm	ASTM D 257
Dielectric constant	≥5	@1MHz	ASTM D 150
Dielectric loss	≤0.1	@1MHz	ASTM D 150

All above data are copyrighted and elaborated by HFC