

RF-absorber Materials

Product Description

■ The RF-absorber materials refer to a kind of materials that can absorb the energy of electromagnetic wave emitted to its vicinity. These RF-absorber materials can be classified by material loss mechanism as resistance type, electrical medium type and magnetic medium type. Waveabsorbing materials produced by HFC are a type of magnetic medium materials.

Features

Soft and ultra-thin

Insulation properties

Available in narrow spaces

■ Flexible to cut various shapes

reliable to install and use.

Excellent performances of absorbing electromagnetic radiation noise

■ High-strength adhesion effect makes it more

Applications

- EMI/EMC electronic components
- RFID anti-metal electronic tag
- NFC payment
- Magnetic screen

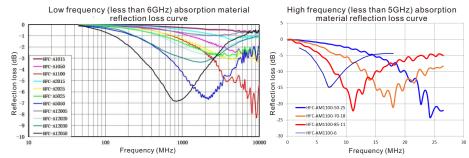
5G~30G

Product series					
Product series	HFC-A series	HFC-AM series	Thermal conductive wave-absorbing serie		
Permeability (µ'@1MHz)	10~250	10	10		
Thickness range (mm)	0.03~3.0	0.2~3.0	0.5~3		

100M~10G

Characteristic Curve

Working frequency (Hz)





2G~30G







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SHENZHEN HFC CO.,LTD

EMI/EMC and Thermal Interface Materials Manufacturer



Company Profile

- » Shenzhen HFC Co.,Ltd. which was established in 2003.Its factories located in the 1st and 3rd Industrial Parks, Fenghuang Fuyong Town, Bao'an District, Shenzhen, Wuhan Province and Chongging, and offices in the USA, Japan, Hong Kong, Taiwan and Suzhou, Jiangsu, with more than 400 employees.
- » We are a State High-Tech Enterprise focusing on R&D, manufacture and sales for thermal interface materials, EMI shielding materials, wave-absorbing materials and other innovative materials.
- >> We also have set up R&D Centers in South China, Chongqing, Wuhan and Taiwan. With deep and careful efforts in heat dissipation solution research, EMC solutions, innovative substrate development, etc., we have acquired more than 190 patents and won the International R&D100 Awards, CES Innovation Awards, Edison Awards and Golden Prize for International Exhibition of Inventions of Geneva, etc.
- >> We have passed a series of system certification such as ISO9001, ISO14001, IATF16949, IECQ-QC08000,OHSAS18001, etc.. And all our products are UL certified, and comply with environmental requirements such as RoHS/Halogen free. We are always moving towards the standard of "0" defect



4 R&D Centers:

Shenzhen R&D Center Conductive materials Customized solutions for shielding Thermal interface materials: Thermal conductivity modification of polymer matrix R&D of heat sink devices

Chongqing R&D Center

Water soluble matrix

Thermal Interface Material Thermal Conductive Gasket «

Our products are self-developed and all can be customized according to customer needs.





40~70 120*120

(Shore 00) Thermal distribute range Thickness range Hardness range Standard size UL-94

Low oil output series

(mm) (Shore C) (KV/mm)

Thickness range Hardness range Voltage

Low stress series

(Shore C) (KV/mm)

0.3~18 30~55

General series					
1.0~5.0	0.2~18	18~60	>8	V 0	
5.0~12.0 (W/m·K)	0.5~6 (mm)	25~60 (Shore C)	≥ 0 (KV/mm)	V-0	
Thermal conductivity range	Thickness range	Hardness range	Breakdown voltage	UL-94	

Super soft series				
1.0~10.0 (W/m·K)	0.8~4 (mm)	20~40 (Shore 00)	≥5 (KV/mm)	V-0
Thermal	Thickness range	Hardness range	Breakdown	UL-94

Low density series				
1.5~2.0 (W/m·K)	1~3 (mm)	25~50 (Shore C)	≥8 (KV/mm)	2.0 (g/cc)
Thermal conductivity range	Thickness range	Hardness range	Breakdown voltage	Density

Anti-RF series				
3.0 (W/m·K)	1~4 (mm)	35~50 (Shore C)	≥8 (KV/mm)	≤3.5 (@1MHz)
Thermal onductivity range	Thickness range	Hardness range	Breakdown voltage	Dielectric consta

Anti-high humidity change series (Shore C) (KV/mm) (@ Ω ·cm)

0.3~3

Thermal Gel «

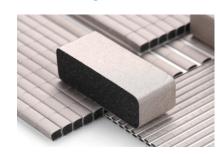
Application Features: Low stress, Be used for automatic dispensing

Recommended Application Fields: Mobile phones, new energy battery modules, fixed thermal conduction of battery structure, electric insulation and embedment of power supplies and thermal management of heteromorphosis interface

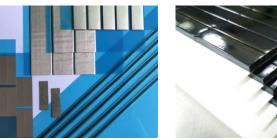




Shielding Material Our products are developed with our own processes, and all can be customized according to customer needs.







FOF Gasket

Product Structure:

Conductive fabric +PU foam + conductive

Application Features

- Excellent shielding performance and electric conductivity
- Available in various cross section / Customized for irregular shape
- Soft, high compression ratio.

Conductive tape

- Wide compressible range

Half-wrapped Gasket

Product Structure:

Conductive fabric/Tin-plated PI + PU foam+ Application Features

- Low impedance

Low stress



SMT Gasket

Product Structure:

PI film-copper-tin/gold + adhesive + silicon Rubber/Foam

Application Features ■ High temperature resistant

- Good oxidation resistance
- Can be used for SMT automatic machine

XYZ Conductive Foam

Product Structure:

Conductive Fabric + conductive foam + conductive Fabric + conductive PSA Application Features

- XYZ Axis conductivity
- Lower resistance

Conductive PE

Electroplated layer+Basic material+ Conductive PSA **Application Features**

Product Structure:

Graphite Foam

Graphite + PU foam + PSA

conductivity coefficient

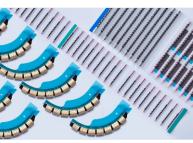
Good rebound resilience

Low thermal resistance, high thermal

Product Structure:

Application Features

- Excellent surface and vertical
- Strong elongation performance

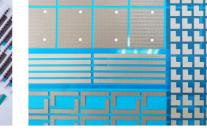


Conductive Fabric Over Air

Product Structure:

Conductive fabric + Conductive tape **Application Features**

- Low stress
- Special anti-counterfeiting structure



Conductive Fabric Tape

Product Structure:

Conductive fabric + conductive adhesive **Application Features**

- Mainly applied to microelectronic assembly
- High initial adhesion, conductivity and anti-chemical performances



Copper/Aluminum Tape

Product Structure:

CU/AL Foil + Conductive/Non-conductive adhesive

Application Features

- Excellent shielding effectiveness
- Stable performance and easy to process

