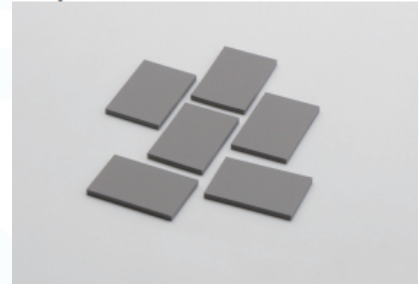


LY-TAB2006

Like the traditional heat conduction interface materials, heat conduction microwave absorbing materials can be directly applied between heat source and radiator. While deriving heat, it can absorb leaked electromagnetic radiation to eliminate electromagnetic interface. The heat conduction and microwave absorbing material with both thermal and electromagnetic countermeasures can solve problems in limited space and time without shielding cover, simplify structural design and reduce cost. At the same time, the soft silica gel substrate can reduce internal stress and allowable tolerance, Make the terminal products have higher reliability design, and provide good solutions for electronic communication products in terms of heat conduction and electromagnetic shielding.



Features and Benefits

- Dual advantages of radio absorbing and heat conduction
- Double sided self-adhesive, easy to assemble and reusable
- Stable reflection loss performance and high peak absorption strength
- Fire rating reaches UL94-V0
- High insulation strength

Applications

Commercial communication: antenna, base station optical module, router and switch etc

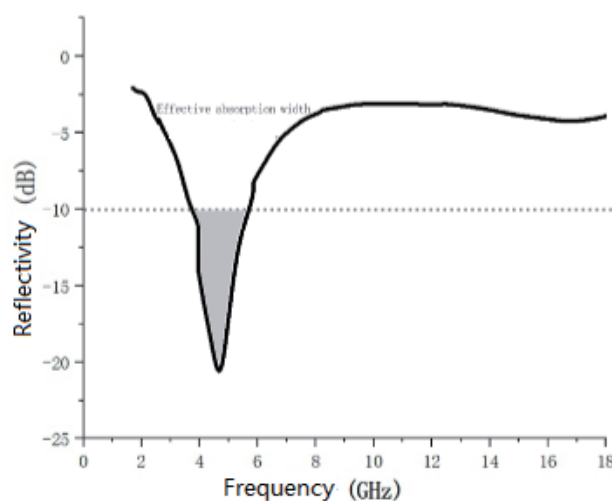
Millimeterwave application: 5G communication, millimeterwave radar

Industrial electronics: automotive electronics, UAV etc

Instrument measurement: power amplifier, filter, and test system

Security and national defense: radar system, and aerospace etc

Reflectivity Test Curve



Reflectivity test curve



Characteristics

PROPERTIES	LY-TAB2006	TEST METHOD
Color	Gray	Visual
Thickness,mm	0.5 ~10	ASTM D 374/374M
Hardness, shore A	30 ± 5	ASTM D2240
Hardness, shore 00	60 ± 10	ASTM D2240
Density, g/cc	4.39	ASTM D792
Service Temperature, °C	-40 to +150	/
Flame Retardant Rating	V-0	UL94
Weight Loss Ratio,%	≤ 0.3	@150°C 240H
Tensile strength, Mpa	≥ 0.2	ASTM D412
Elongation at break,%	≥ 100	ASTM D412
Tear Strength,KN/m	1.0	ASTM D624
Breakdown Voltage,V/mm	≥ 250	ASTM D149
Dielectric Constant @1MHz	13	ASTM D150
Dielectric Loss @1MHz	7.6 x 10 ⁻⁴	ASTM D150
Thermal Conductivity,w/m-k	2.0 ± 0.2	ISO 22007-2
Thermal Conductivity,w/m-k	2.0 ± 0.2	ASTM D5470
Frequency Range, GHz	see the Reflectivity test curve	GJB 2038A-2011
Heat Capacity, J/g-K	0.613	ASTM E 1269

Basic specification: 200mm *400mm, which can be cut into specific shape and size according to requirements

Storage

Temperature :25 °C and 50% Relative Humidity

Shelf Life

12 months from manufacture date with original package

Regulation

RoHS & HF Compliant

Disclaimers

Many factors beyond Longyoung's control and uniquely within user's knowledge and control can affect the use and performance of a longyoung product in a particular application. As a result, customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer's application.

