High Thermal Acryl Gel

Tathaga

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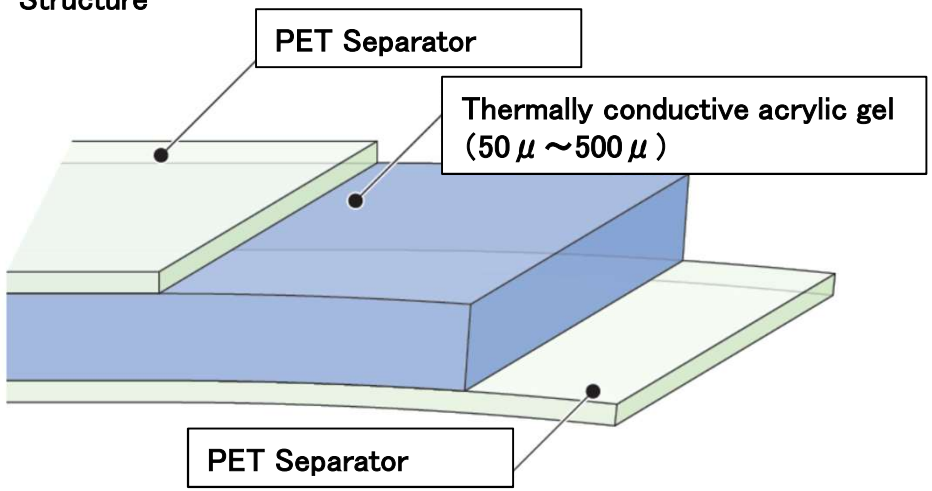
Structure

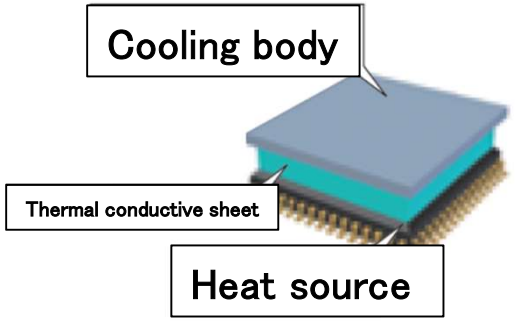


Features

"Tathaga sheet" has few damage to glass and electrode by non-silicone material.
"Tathaga sheet" has high thermo-conductivity.
"Tathaga sheet " fit various face by soft material.
"Tathaga sheet " can reduce the contact-thermo-resistance.

Applications

Electronics parts
Fixation of parts at mobile-phone
Electronics parts in automotive



Line up

Grade	Product	Thickness (μm)	Thermal conductivity (W/m・K) *Laser flash method	Peel adhesive (N/25mm) SUS *JIS Z 0237
General grade	KBS10	100	1.3	4
	KBS30	300	1.3	5
	KBS50	500	1.3	10
High grade	HTAG5	50	3.0	2
	HTAG10	100	3.0	3
	HTAG12.5	125	3.0	3.5
	HTAG30	300	3.0	4
	HTAG50	500	3.0	8
Development item	200HTG100	100	10.0	0.1
	200HTG300	300	10.0	0.5
	200HTG500	500	10.0	0.7

Property

※Test sample：KBS30

Property		Test method	value	unit
Mechanical strength	Tensile strength	JIS K 7162	1.3	MPa
	Growth rate	JIS K 7162	420	%
Thermal characteristics	Thermal conductivity	Laser flash method	1.3	W/m･K
Electrical characteristics	Volume resistivity	DC250V	≧10E15	Ω･cm
	Dielectric breakdown voltage	AC	20	KV/mm
	Tracking resistance	CTI	600	V

Reliability test

①９０℃

Property	Unit	Initial	100h	200h	500h	1000h	1500h
Hardness	AskerC	69	71	73	71	73	72
Thermal characteristics	W/mK	1.3	1.2	1.4	1.2	1.5	1.5
Mechanical strength	MPa	1.3	1.1	1.2	1.3	1.3	1.1
Tensile strength Growth rate	(%)	420	390	310	330	390	420
Peel adhesive	N/25mm	4.7	7.8	8.3	7.9	5.3	8.3
No aluminum foil Aluminum foil available	N/25mm	5.2	17.0	12.0	11.0	21.0	28.0
Electrical characteristics Dielectric breakdown voltage	(kV/mm)	20.6	20.3	21.6	19.1	20.5	18.9
Volume resistivity	Ω・cm	>10E15	>10E15	>10E15	>10E15	>10E15	>10E15
100V	Ω・cm	>10E15	>10E15	>10E15	>10E15	>10E15	>10E15
250V 500V	Ω・cm	>10E15	>10E15	>10E15	>10E15	>10E15	>10E15

②－40℃～120℃ Heat cycle

Property	備考	初期	200 サイクル	400 サイクル
Hardness	AskerC	6.9	72	73
Thermal characteristics	W/mK	1.3	1.4	1.5
Mechanical strength	MPa	1.3	1.2	1.4
Tensile strength Growth rate	(%)	420	329	310
Peel adhesive	N/25mm	4.7	7.0	3.3
	N/25mm	5.2	16.6	19.6
Dielectric breakdown voltage	kV/mm	20.6	16.5	17.7
Volume resistivity	Ω・cm	>10E15	>10E15	>10E15
100V	Ω・cm	>10E15	>10E15	>10E15
250V 500V	Ω・cm	>10E15	>10E15	>10E15

※Test sample：KBS30

Track record

Panasonic

EYE IWASAKI

TOYOTA

Back of keyboard of PC

Street lamp LED lighting

Car meter display LED

KEK

Confidential

End of presentation

User is responsible for determining whether the KGK product is fit for a particular purposeand suitable for user's method of application. Please remember that many factors canaffect the use and performance of a KGK product in a particular application. The materials to be bonded with the product, the surface preparation of those materials, the product selected for use, the conditions in which the product is used, and the time and environmental conditions in which the product is expected to perform are among the many factors that can affect the use and performance of a KGK product. Given the variety of factors that can affect the use and performance of a KGK product, some of which are uniquely within the user's knowledge and control, It is essential that the user evaluate the KGK product to determine whether it is fit for a particular purpose and suitable for the user's method of application.
KGK make no warranties on above data.

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