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Excellent Cushioning and Vibration Damping Performance

Shock Absorption & Vibration Damping

CIGEL 's (Alpha GEL) softness allows for deflection required for shock absorption and vibration damping, providing excellent cushioning and vibration damping performance.

Superior Durability

Durability

CAGEL is highly resistant to ozone, UV rays and chemicals, making it possible to use in a variety of locations. In addition, its performance is maintained even after repeated compression.

Stable Performance Even In a Harsh Environment

Stability

 \mathcal{C}_{GEL} 's properties show little change in the -40°C(-40 °F) to 200°C (392 °F) range, providing stable performance.

Outstanding Platform for Additional Functions and Enhanced Performance

Function

On top of the unique combination of excellent features, **CGEL** also works as a reliable foundation for additional functions and for enhancing performance without compromising the merits softness brings.

Extremely High Safety

Safety

CIGEL's composition makes it harmless to the human body and to the environment, causing no allergies when touched, and emitting no harmful gases when burned.

Taica's Know-how

Engineering & Know-How

You can count on us for enhanced cushioning, vibration damping, tender feel, and more.

Years of accumulated expertise and know-how, mastery of fine-tuning softness, designing and making optimum gel parts --- together all of these help cope with a variety of changing environments and needs of customers around the globe.







Features

 Offers outstanding thermal conductivity and excellent heat dissipation.

eat dissipation. $\widehat{\mathbb{Q}}_{7}$

- Adhere to rough surfaces and push out all air gaps.
- Good electrical insulators and flame retardant.

[Thermal Conductivity and Flexibility]



General Properties

Grade		COH-1016 LVC	COH-1019 LVC	COH-4000LVC	COH-4065LVC	
Characteristics		Few low molecular weight Siloxane	High damping	Few low molecular weight Siloxane	High thermal conductivity+High damping	Remark
Thermal	Our tests	1.9	1.9	6.5	6.5	—
conductivity (W/(m•K))	Hot Wire Method (**1)	1.2	1.2	2.1	2.1	JIS R 2616
Hardness (Needle penetra	tion•1/10mm)	60	90	45	65	JIS K 2207
Appearance		White	Blue	Gray	Reddish brown	_
Specific gravity		1.7	1.7	2.9	2.8	JIS K 6249
Tensile strength	n (MPa)	0.21	0.14	0.35	0.10	JIS K 6249
Volume resistiv	ity (Ω•cm)	6.1×10 ¹³	3.1×10 ¹³	7.1×10 ¹³ 4.4×10 ¹²		JIS K 6249
Dielectric breakdown voltage (kV/mm)		18.8	16.5	12.5 13.6		JIS K 6249
Elongation (%)		205	480	68 132		JIS K 6249
Compression set (%)		15	51	72 75		JIS K 6249
	〈50Hz〉	4.8	4.6	5.6	6.8	JIS K 6249
Dielectric constant	<1kHz>	4.3	4.2	5.0	6.5	JIS K 6249
constant	<1MHz>	4.0	3.9	5.5	6.0	JIS K 6249
Dielectric	〈50Hz〉	0.071	0.055	0.006	0.058	JIS K 6249
dissipation	<1kHz>	0.046	0.034	0.002	0.041	JIS K 6249
factor	<1MHz>	0.007	0.006	0.0004	0.011	JIS K 6249
RoHS controlled substances (**2)		Not detected	Not detected Not detected		Not detected	_
Temperature range (°C)		-40~150	-40~150 -40~150		-40~150	-
One side non tacky type		0	0	0	0	
		Older Older Older	Near clear clear cla	Olar Olar Olar Ol	year olar olar olar	

 Other
 Other

(*1) Hot Wire Method : Using the QTM-500 Quick Thermal Conductivity Meter, from Kyoto Electronics Manufacturing Co., LTD. (*2) Temperature Range of Use: Range of measured stable thermal conductivity and hardness properties. Please conduct appropriate reliability testing under actual usage conditions.

%Not Specified Values



Directions

- Slowly peel off one side of the protective film of λ_{GEL} .
- Carefully place **AGEL** sheet on the heat source or heatsink without air gap.
- ♦ Peel off the remaining layer from XGEL[™] with no air gap in between the sheet and heat dissipating device or heat generating device.



Delivery Format

[Basic Specifications]

Sheet size	400×400mm		
Sheet thickness	0.5、1.0、2.0、3.0mm		
	<i>« СОН-4065LVС</i> 1.0、2.0、3.0mm		

Notes

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•It is highly recommended that users would not use the products shown in the brochure in medical applications, particularly for implantation use.

•The users shall be aware of the fact that silicone oil could bleed from silicone-gel. It is therefore that any user should be responsible for conducting reliability test in advance before delivering the products in the market.

•The silicone-gel contains low molecular siloxane, which could be volatile.

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Taica http://www.taica.co.jp/gel-english/

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Paste-type (Grease) Thermal Conductive GEL

GEL^M DP

Fill gaps around the heat source for improving heat dissipation. Eliminate running and vaporization problems. Easily spreads over heat generating devices.



◆Lambda GEL/DP

- Very soft paste-type (grease)GEL with thermal conducting properties.
 Cross-linked particles of *\lambda_GEL DP* eliminate running and vaporization problems seen with traditional grease and phase change materials.
- Good electrical insulators.

General Properties

Grade		DP-100	DP-200	DP-300	Remark
Thermal conductivity (W/ (m•K))	Our tests	6.5	4.8	4.8	—
	Hot Wire Method (**1)	2.0	1.6	1.6	JIS R 2616
Hardness (Cone penetration 1/10mm, not mixed)		51	55	60	JIS K 6249(1/4cone)
Appearance		Gray	Gray	White	—
Specific gravity		2.8	2.6	2.7	JIS K 6249
Volume resistivity (Ω•cm)	5.9×10 ¹³	7.2×10 ¹⁴	1.4×10 ¹⁴	JIS K 6249
Dielectric breakdown voltage (kV/mm)		5.0	5.6	9.6	JIS K 6249
	〈50Hz〉	8.9	7.6	4.4	JIS K 6249
Dielectric constant	〈1kHz〉	7.8	6.7	4.2	JIS K 6249
constant	<1MHz>	7.0	6.6	4.0	JIS K 6249
	〈50Hz〉	0.234	0.017	0.005	JIS K 6249
Dielectric dissipation factor	<1kHz>	0.061	0.007	0.004	JIS K 6249
	<1MHz>	0.015	0.005	0.0004	JIS K 6249
Low molecular weight Siloxane level Σ D4-10 (ppm)	Solvent Extraction Method	Less than 700	Less than 900	Less than 300	-
	Head Space Method ^(**2)	Less than 1	Less than 3	Less than 1	_
RoHS controlled substances		Not detected	Not detected	Not detected	—
Temperature range (°C)		-40~200	-40~150	-40~120	_

(% 1) Hot Wire Method : Using the QTM-500 Quick Thermal Conductivity Meter, from Kyoto Electronics Manufacturing Co.,LTD.
 (% 2) Head Space Method : at 70°C
 % Not Specified Values

[Clamping Torque Dependency]







	Transistor: MT-200 type Heat input: 20V			
Thickness (mm)	0.10	0.15	0.20	0.30
DP-100	—	0.13	0.15	0.18
DP-200	0.13		0.17	0.22
DP-300	0.09		0.17	0.25
				(°C/W)

Delivery Format

[Basic Specifications]

DP-100/DP-200	Syringe 30mL
DP-300	Bottle 30mL



Notes

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Minimizing EM noise in all-in-one solution for electromagnetic noise, heat and shock.



Features

- Electromagnetic noise absorbent and thermal conductive characteristics.
- Adhere to rough surfaces with softness and show excellent heat dissipattion and electromagnetic absorbing performance.
- Good electrical insulators and flame retardant.
- Usable over a wide range of temperature.

General Properties

Grade		RE-100	RE-100H	Remark
Thermal	Our tests	2.0		-
conductivity (W/ (m•K))	Hot Wire Method (#1)	1.0		JIS R 2616
Hardness (Needle penetration • 1/10mm)		60		JIS K 2207
Appearance		Bla	—	
Specific gravity		2.	JIS K 6249	
Volume resistivity (Ω•	cm)	2.0×10 ¹¹		JIS K 6249
Dielectric breakdown (kV/mm)	voltage	4.5	10.0	JIS K 6249
Low molecular weight Siloxane level	Solvent Extraction Method	Less than 300		—
Σ D4-10 (ppm)	Head Space Method (**2)	Less than 1		-
Flame retardance		V-1 (0.5~2mmt) V-0 (3.0mmt)	-	UL94
RoHS controlled subst	ances	Not detected		—
Temperature range (°C	:)	-40~150		—
Other Specification		_	w/Adhesive reflective layer	_
(**1)Hot Wire Method : Using th Thermal Conductivity Meter, Electronics Manufacturing Cr (**2) Head Space Method : at 70' **Not Specified Values	from Kyoto o.,LTD.		P	



5

Frequency(GHz)

10

[Compression] RE-100 RE-100H



1.0

[Electromagnetic Noise Absorption]





_____1(mm) _____2(mm) _____3(mm)

2.5

15

Frequency(GHz)

Frequency(GHz)

← Optical Pick-up → ← Wireless LAN →

← PC ← → Cable communication ←

Automotive ECU → ← Cell phone →

[Shielding Effect]

-20 -25

-30 L

[Frequency Range]

01

Devices

0.5

RE-100H

[Electromagnetic Noise Absorption]



Directions

- RE-100 is protected by films on both sides.
 Slowly peel off one side of the protective film of RE-100.
 Carefully place RE-100 sheet on the heat source or heatsink without air gap.
 Peel off the other film from RE-100. Place heat dissipating device or heat generating device on RE-100 without air gap.
- ◆ RE-100H has logo-film on one side and an adhesive layer on the other side.
- Peel off the film on the adhesive side and fix RE-100H on the enclosure. • Peel off the logo-film, and place RE-100H on heat source or heatsink without air gap.

Delivery Format

[Basic Specifications]

 Sheet thickness
 0.5, 1.0, 2.0, 3.0mm

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