

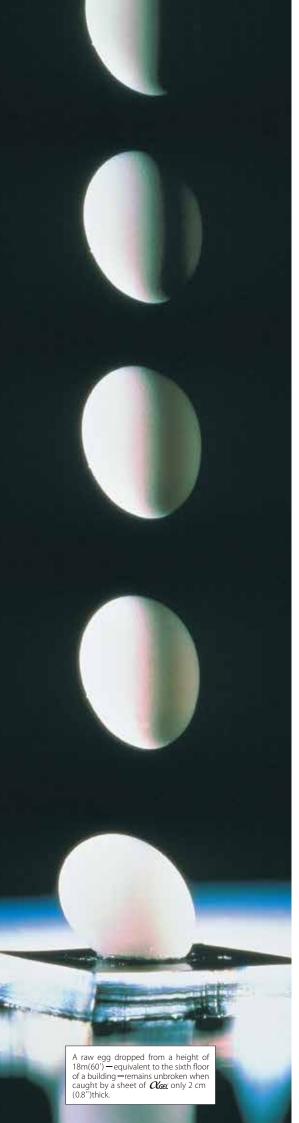
Taica Corporation Head office Takanawa Sengakuji-ekimae Bldg. 3F, 2-18-10 Takanawa, Minato-ku, Tokyo 108-0074 Japan Phone. +81-3-6367-6624 FAX. +81-3-6367-6620

Taica and Car are trademarks of Taica Corporation, registered in Japan, the United States and / or other countries.











Excellent Cushioning and Vibration Damping Performance

Shock Absorption & Vibration Damping

CALC '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

CAGEL'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, *Cleff* also works as a reliable foundation for additional functions and for enhancing performance without compromising the merits softness brings.

Extremely High Safety

Safety

CGEL'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.

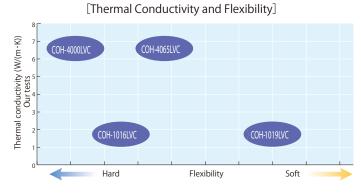






- Offers outstanding thermal conductivity and excellent heat dissipation.
- Adhere to rough surfaces and push out all air gaps.
- Good electrical insulators and flame retardant.



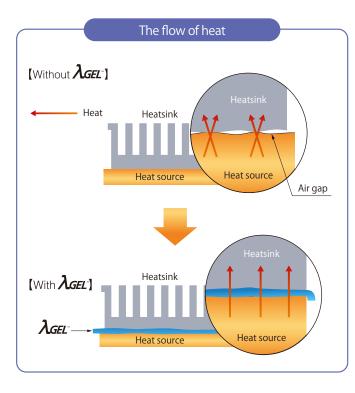


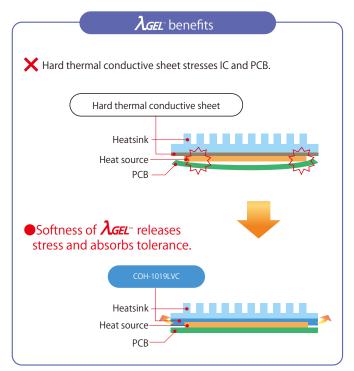
General Properties

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		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 strengtl	h (MPa)	0.21	0.14	0.35	0.10	JIS K 6249
Volume resistiv	vity $(\Omega \cdot cm)$	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 se	et(%)	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	
		Olasi Olasi Olasi	You doe doe no	Olar Olar Nat 1	year class class class	
		You doe doe	E NEE NEE 10	at dat dat and	Class Class Class	
		Older Older O	Dice Old Olde	Olast Olast Olast	year dear dear	

(**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

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

Notes

- •To the best of our knowledge, the information and statements on this brochure are believed to be true and reliable; however, the PRODUCTS described herein are sold WITHOUT ANY GUARANTEE OR WARRANTY INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSES since the application and conditions of each use vary and change, and are beyond the control of manufacturer and seller(s). The customers and users of the PRODUCTS shall assume the responsibility for determining the suitability of the PRODUCTS based on their tests and for whatever risks and liability associated with the use of the PRODUCTS. NEITHER MANUFACTURER NOR SELLER(S) SHALL BE LIABLE EITHER IN TORT OR CONTRACT OR ANY OTHER CAUSE FOR ANY KIND OF LOSS OF PROFITS OR DAMAGE, INCIDENTAL, DIRECT, OR CONSEQUENTIAL, ARISING OUT OF OR IN CONNECTION WITH THE USE OF OR THE INABILITY TO USE THE PRODUCTS.
- •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.

* The copyright of this brochure belongs to Taica Corporation. It is prohibited to copy and to use the contents of this brochure without our prior. **Taica** and \mathcal{C}_{GEL} are trademarks of Taica Corporation, registered in Japan, the United States and / or other countries.



Takanawa Sengakuji-ekimae Bldg. 3F, 2-18-10 Takanawa, Minato-ku, Tokyo 108-0074 JAPAN Phone: +81-3-6367-6624 FAX: +81-3-6367-6620 E-mail: gel.overseas@taica.co.jp



GEL" DI D ◆Lambda GEL/DP

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



Features

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

General Properties

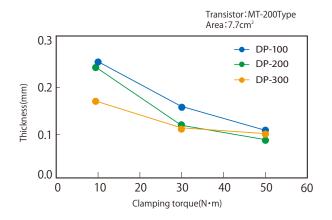
Grade		DP-100	DP-200	DP-300	Remark
Thermal conductivity (W/ (m•K))	Our tests	6.5	4.8	4.8	-
	Hot Wire Method (*1)	2.0	1.6	1.6	JIS R 2616
Hardness (Cone penetration 1/10mm, not mixed)		51	55	60	JIS K 6249(1/4cone)
Appearance		Gray	Gray	White	-
Specific gravity		2.8	2.6	2.7	JIS K 6249
Volume resistivity (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	$\langle 1 kHz \rangle$	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	_

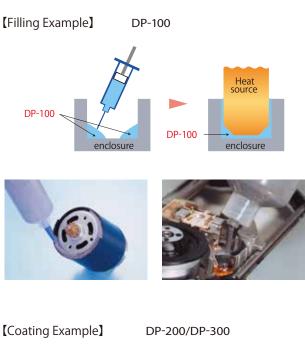


(**1) Hot Wire Method : Using the QTM-500 Quick Thermal Conductivity Meter, from Kyoto Electronics Manufacturing Co.,LTD. (**2) Head Space Method : at 70°C

*Not Specified Values

[Clamping Torque Dependency]





DP-200/DP-300 DP-200/ DP-300 Heat source Heat source Heat source Heat source DP-200/ DP-300

	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)

Basic Specifications

[Thermal Resistance]

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

Notes
•To the best of our knowledge, the information and statements on this brochure are believed to be true and reliable; however, the PRODUCTS described herein are
sold WITHOUT ANY GUARANTEE OR WARRANTY INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR
PURPOSES since the application and conditions of each use vary and change, and are beyond the control of manufacturer and seller(s). The customers and users
of the PRODUCTS shall assume the responsibility for determining the suitability of the PRODUCTS based on their tests and for whatever risks and liability

of the PRODUCTS shall assume the responsibility for determining the suitability of the PRODUCTS based on their tests and for whatever risks and liability associated with the use of the PRODUCTS. NEITHER MANUFACTURER NOR SELLER(S) SHALL BE LIABLE EITHER IN TORT OR CONTRACT OR ANY OTHER CAUSE FOR ANY KIND OF LOSS OF PROFITS OR DAMAGE, INCIDENTAL, DIRECT, OR CONSEQUENTIAL, ARISING OUT OF OR IN CONNECTION WITH THE USE OF OR THE INABILITY TO USE THE PRODUCTS.

•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.

* The copyright of this brochure belongs to Taica Corporation. It is prohibited to copy and to use the contents of this brochure without our prior. **Taica** and *Class* are trademarks of Taica Corporation, registered in Japan, the United States and / or other countries.



-Takanawa Sengakuji-ekimae Bldg. 3F, 2-18-10 Takanawa, Minato-ku, Tokyo 108-0074 JAPAN Phone: +81-3-6367-6624 FAX: +81-3-6367-6620 E-mail: gel.overseas@taica.co.jp



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

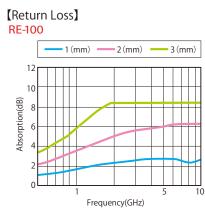


Features

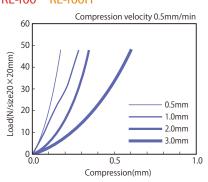
- Electromagnetic noise absorbent and thermal conductive characteristics.
- Adhere to rough surfaces with softness and show excellent heat dissipattion and electromagnetic absorbing performance.
- Good electrical insulators and flame retardant.
- Usable over a wide range of temperature.

General Properties

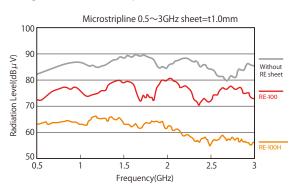
Grade		RE-100	RE-100H	Remark
Thermal	Our tests	2.0		-
conductivity (W/ (m•K))	Hot Wire Method ^(*1)	1.0		JIS R 2616
Hardness (Needle penetration • 1/10mm)		60		JIS K 2207
Appearance		Black		—
Specific gravity		2.9		JIS K 6249
Volume resistivity ($\Omega \cdot cm$)		2.0×10 ¹¹		JIS K 6249
Dielectric breakdown voltage (kV/mm)		4.5	10.0	JIS K 6249
Low molecular	Solvent Extraction Method	Less than 300		—
weight Siloxane level ΣD4-10 (ppm)	Head Space Method (**2)	Less than 1		—
Flame retardance		V-1 (0.5~2mmt) V-0 (3.0mmt)	-	UL94
RoHS controlled substances		Not detected		—
Temperature range (°C	.)	-40~150		-
Other Specification		-	w/Adhesive reflective layer	-
 (*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 				



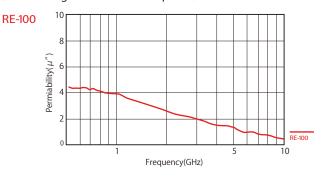




[Electromagnetic Noise Absorption]

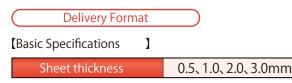


[Electromagnetic Noise Absorption]



Directions

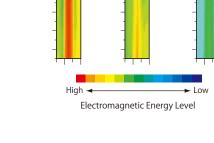
- RE-100 is protected by films on both sides.
 Slowly peel off one side of the protective film of RE-100.
 Carefully place RE-100 sheet on the heat source or heatsink without air gap.
 Peel off the other film from RE-100. Place heat dissipating device or heat generating device on RE-100 without air gap.
- 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.



Notes

- •To the best of our knowledge, the information and statements on this brochure are believed to be true and reliable; however, the PRODUCTS described herein are sold WITHOUT ANY GUARANTEE OR WARRANTY INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSES since the application and conditions of each use vary and change, and are beyond the control of manufacturer and seller(s). The customers and users of the PRODUCTS shall assume the responsibility for determining the suitability of the PRODUCTS based on their tests and for whatever risks and liability associated with the use of the PRODUCTS. NEITHER MANUFACTURER NOR SELLER(S) SHALL BE LIABLE EITHER IN TORT OR CONTRACT OR ANY OTHER CAUSE FOR ANY KIND OF LOSS OF PROFITS OR DAMAGE, INCIDENTAL, DIRECT, OR CONSEQUENTIAL, ARISING OUT OF OR IN CONNECTION WITH THE USE OF OR THE INABILITY TO USE THE PRODUCTS.
- elt 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.

* The copyright of this brochure belongs to Taica Corporation. It is prohibited to copy and to use the contents of this brochure without our prior. **Taica** and \mathcal{X}_{GEL} are trademarks of Taica Corporation, registered in Japan, the United States and / or other countries.

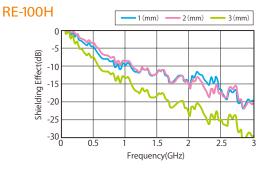


RF-100

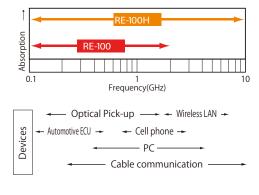
RF-100H

Without RE sheet

[Shielding Effect]



[Frequency Range]





Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Taica:

 DP-100
 DP-200
 DP-300
 RE-100 t0.5
 RE-100 t1.0
 RE-100 t2.0
 RE-100 t3.0
 RE-100H t0.5
 RE-100H t1.0
 RE

 100H t2.0
 RE-100H t3.0
 RE-100H-200-05
 RE-100H-200-10
 RE-100H-200-20
 RE-100H-200-30
 RE-100-200-05
 RE

 100-200-10
 RE-100-200-20
 RE-100-200-30
 RE-100-200-30
 RE RE