



Typical Properties

Item		COH-1002	COH-1002LVC	COH-6000LVC	COH-4000LVC	Test Method
Grade		Standard grade			High grade	
Characteristics		Reasonable price	Few low molecular weight Siloxane	High damping	Few low molecular weight Siloxane	
Thermal conductivity (W/m·K)	Our tests	1.8	1.8	1.8	6.5	—
	Hot Wire Method *1	1.0	1.0	1.0	2.1	JIS R 2616
Hardness (Needle penetration·1/10mm)		70	60	90	45	JIS K 2207
Appearance		White	White	Blue	Gray	—
Specific gravity		1.7	1.7	1.7	2.9	JIS K 6249
Tensile strength (MPa)		0.17	0.16	0.15	0.35	JIS K 6249
Volume resistivity (Ω·cm)		7.7×10 ¹³	3.8×10 ¹³	8.7×10 ¹³	7.1×10 ¹³	JIS K 6249
Dielectric breakdown voltage (kV/mm)		18.0	13.8	12.5	12.5	JIS K 6249
Elongation (%)		164	139	350	68	JIS K 6249
Compression set (%)		69	58	49	72	JIS K 6249
Dielectric constant	〈50Hz〉	7.3	5.5	5.2	5.6	JIS K 6249
	〈1kHz〉	4.8	4.1	3.7	5.0	JIS K 6249
	〈1MHz〉	3.9	3.7	3.4	5.5	JIS K 6249
Dielectric dissipation factor	〈50Hz〉	0.290	0.207	0.115	0.006	JIS K 6249
	〈1kHz〉	0.153	0.087	0.057	0.002	JIS K 6249
	〈1MHz〉	0.013	0.007	0.005	0.0004	JIS K 6249
Low molecular weight Siloxane level ΣD4-10 (ppm)	Solvent extraction method	301	6	19	13	—
	Head space Method *2	Less than 5	Less than 0.1	Less than 1	Less than 0.1	—
Flame retardance		V-1 (0.5mmt) V-0 (1.0mmt<)	V-1 (0.5mmt) V-0 (1.0mmt<)	V-1 (0.5mmt) V-0 (1.0mmt<)	V-0 (0.5mmt<)	UL94
RoHS controlled substances		Not detected	Not detected	Not detected	Not detected	—
Temperature range (°C)		-40~150	-40~120	-40~150	-40~150	—
One side non tacky type		○	○	○	○	

*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



Directions

- ◆ Slowly peel off one side of the protective film of **λGEL COH**.
- ◆ Carefully place **λGEL COH** sheet on the heat source or heatsink without air gap.
- ◆ Peel off the remaining layer from **λGEL COH** with no air gap in between the sheet and heat dissipating device or heat generating device.



Delivery Format

【Basic Specifications】

Sheet thickness	0.5、1.0、2.0、3.0mm
Sheet size	400mm×400mm

【Custom Products】

λGEL COH can be tailored for the application by custom sheet size or thickness as well as tacky or one side non tacky.

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 breed 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.