http://www.taica.co.jp/gel-english/
For human beings.
For the earth.
For the future.
Living, working and serving in harmony with the environment.

Identifying and tapping into possibilities in softness — with multi-faceted proprietary αGEL technologies and beyond — for increased well-being and comfort for people around the globe. This is what Taica is all about.

Softness inherent to αGEL:
Softness is not just a catalyst for function or added comfort. Softness embraces and protects our lives. Softness is where we loosen up and feel relaxed. Softness, flexibility and suppleness are the basis for softness — the soothness that brings us joy and happiness. Representing these underlying core values, essential to lively well-being, αGEL goes beyond mere functional material.

This understanding is at the heart of all we do, as we listen to the varying and changing needs of the user, and proactively and creatively continue to offer an enhanced level of comfort.

Excellent Cushioning and Vibration Damping Performance
αGEL’s (Alpha GEL) softness allows for deflection required for shock absorption and vibration damping, providing excellent cushioning and vibration damping performance.

Superior Durability
αGEL 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
αGEL’s properties show little change in the -40°C (-40°F) to 200°C (392°F) range, providing stable performance.

Extremely High Safety
αGEL’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.

Outstanding Platform for Additional Functions and Enhanced Performance
On top of the unique combination of excellent features, αGEL also works as a reliable foundation for additional functions and for enhancing performance without compromising the merits softness brings.

Taica’s 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.
As proven through an egg-drop test in which a raw egg remains unbroken even when dropped from a height of 18m (about 60'), Alpha GEL has amazing shock absorbing capability. From sports to industrial applications, Alpha GEL is the answer to various shock absorption needs.

**Shoe Cushioning**

Cleave protects the knee from the impact of landing, said to be three times the weight of the body. Its performance remains stable even with vigorous movement during sports.

**Golf Iron**

Cleave embedded in the high-rebound head of a golf iron absorbs excess force from the face of the head, allowing a soft, comfortable feeling of impact while providing distance of flight.

**Watch**

Cleave protects precision electronic components in the watches from shock and vibration.

**Business Bag**

Cleave in the laptop computer storage of the business bag keeps computers safe and secure.

**Wheeled Luggage**

Shock, vibration and noise can be reduced by installing Cleave between the luggage and wheel housing.

**Helmet Cushioning (NP GEL)**

The addition of a foam GEL sheet only 3 mm thick effectively absorbs shocks. This makes it possible to decrease the thickness of the helmet, making it lighter and further extending the possibilities of design.

Vibration Damping

Cleave vibration insulators and bushes are ideal for light loads and microvibration. Cleave’s easy adjustability in shape and firmness makes vibration damping in wide frequency region from the low frequency, that had previously been very difficult, to the high frequency.

**Vacuum Pump and Compressor**

Cleave vibration insulators can absorb low frequency vibration, which is difficult to be isolated by conventional dampers such as rubber.

**Railroad Signal**

With a proven record of more than 10 years in the field, Cleave insulators protect the device from shock and vibration, often the causes of signal malfunction.

**PC Board**

Cleave isolators are ideal primarily for light load items such as PC boards. Its softness and mechanically reinforced strength allow for miniaturization of the final product and ensure long-term high performance.

**Laboratory and Medical Equipment**

Cleave is used in laboratory and medical equipment such as centrifuge and oxygen condensers, for vibration damping with long term reliability.

**Drone**

Cleave reduces vibration of cameras mounted on drones.

[Maximum Shock : Iron ball drop]

[Maximum Shock : Iron ball drop]

[Damping Characteristics]
**Pen Grip**

A Clex grip provides a soothing, soft feel that gently fits any fingers. It helps to decrease the chance of harming calluses, even when writing for a long time, making it a highly popular item.

**Supporting Breast Pad**

Clex’s natural elasticity helps to fit comfortably to the body’s lines. So light that it doesn’t burden on the body, the pad can be worn without worry. Lightweight, safe and soft, the breast pad feels like part of the body.

**Bouldering Mat**

Clex layer enhances the impact absorbing characteristic and durability of the bouldering mat.

**Power Tool**

Clex installed grips on the power tools provide outstanding tactile impression and stable operability.

**Stroller Headrest**

A foam GEL safe for prolonged contact with skin, gently embraces the baby’s head and effectively dispenses the pressure on the head. Its shock absorbing capacity further increases safety.

**Bed Mattress**

Clex helps to effectively dispense body pressure and support a natural sleeping posture, providing a comfortable sleep.

**Reliable Platform for Additional Functions**

With its natural softness and superior physical characteristics nearly intact, Clex becomes a reliable, safe platform for various functions. The optimum solution is exemplified through a proven process including selecting fillers, fine-tuning softness to the needs of a customer, etc.

**IC/Semiconductor (Thermal Conductive GEL)**

Soft thermal conductive GEL effectively transfers the heat generated from IC to heat sink, preventing malfunction of the IC and destruction of the devices. Soft thermal conductive paste/paste GEL is ideal for areas where silicon paste GEL is not applicable.

**Optical Pick-Up Device (UV Curing GEL)**

UV Curing GEL is used mainly as damping material for optical pick-up device. UV Curing GEL is supplied in solid state.

**On-board Electronics for Automotive**

Clex provides the GEL which electronically contril the engine and electronic parts, from heat and shock.

**Smartphone/Tablet (UV Curing GEL)**

CPS (Cured in Place Gasket) technology, the state-of-the-art gasketing solution using Clex offers excellent waterproofing and dustproofing for smartphones and tablets.

**Single-Lens Reflex Camera and Lens**

Clex provides multiple solutions to SLR Cameras and Lenses such as dampers for image stabilization, TIM (Thermal Interface Material) on electronics and shock absorbers for shutters.

**Display (optClex)**

Contrast and luminance of LCD displays are improved by optClex. It is also effective for shock resistance, stress release and parasitic decrease.
Characteristics & Specs.

[Rebound Resilience]
Classe is temperature-independent when compared with other comparable materials.

[Compression Set]
Even after prolonged compression, Classe returns to its original state.

[Physical Characteristics]

<table>
<thead>
<tr>
<th>Room (°C)</th>
<th>Physical Value</th>
<th>Original GS</th>
<th>H-1H</th>
<th>H-2</th>
<th>H-3</th>
<th>H-4</th>
<th>H-5</th>
<th>H-6</th>
<th>H-6H</th>
<th>H-6L</th>
<th>NP-6L</th>
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<tbody>
<tr>
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<tr>
<td></td>
<td></td>
<td>Specific Gravity</td>
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<td>0.86</td>
<td>0.86</td>
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<tr>
<td></td>
<td></td>
<td>Shore A</td>
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<td>75</td>
<td>75</td>
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</tr>
</tbody>
</table>

Standard Products

Vibration Damping

Vibration Insulators

Various insulators are available for loads from 2.8 kg (6.1 lbs) to 180 kg (396 lbs) with 4 points of support. Microtensile and microtensile vibration can be damped thanks to easily determine Classe.

Vibration Damping

GEL Bush

Various bushings are available for stress/strain loads from 12 kg (26 lbs) to 32 kg (70.5 lbs) with 4 points of support. While small, they also achieve shock absorption and resistance to horizontal drift. Each bush should sandwich PCB and then be screwed with a bolt.

Vibration Damping

SN Sheet

Tape and simple to use, these are used for direct and prolonged vibration damping. Additional and division of SN Sheets easily accommodates a wide range of load reultances.

Shock Absorption

GEL Tape & GEL Chip

Classe's softness and high performance are also readable applicable with an adhesive on one side in a variety of forms of tape or chip.

Shock Absorption

NP GEL

Lightweight and flame retardant, NP GEL, self-laminates. Classe is durable and weather resistant. Available for use in the -40°C (4°F) to 120°C (248°F) range. It has high compression set.

Reliable Platform for Shock Absorption

AGEL (Lambda GEL)

With its softness intact, Classe can be crafted to become thermal conductive, electromagnetic wave absorbing, electro-conductive, etc. Soft, sticky and conformable AGEL offers superior performance much better than published specificaations due to these contact.
Vibration Insulators

**[Features]**
- Ideal for low frequency and micro vibration due to resonance point designed to be set low.
- Wide selection to choose from: from 2 kg (4.4 lb) to 300 kg (661.4 lb).
- Pick the best fit for your application based on the load (weight).
- The published data are based on 4 points of support (usage).

**Type Ø**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Optimum Load (kg/cm²)</th>
<th>Resonance Point (Hz)</th>
<th>Resonance Magnification (dBA)</th>
<th>Recommended Frequency (Hz)</th>
<th>h (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø-A</td>
<td>2.0 - 3.2</td>
<td>16 - 15</td>
<td>12</td>
<td>23 - 13</td>
<td>16</td>
</tr>
<tr>
<td>Ø-B</td>
<td>1.6 - 2.4</td>
<td>13 - 11</td>
<td>13 - 12</td>
<td>18 - 18</td>
<td>13</td>
</tr>
<tr>
<td>Ø-C</td>
<td>3.2 - 8.0</td>
<td>14 - 12</td>
<td>13 - 12</td>
<td>20 - 18</td>
<td>13</td>
</tr>
</tbody>
</table>

Bolt material: Iron with trivalent chromate plating

**Type MN**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Optimum Load (kg/cm²)</th>
<th>Resonance Point (Hz)</th>
<th>Resonance Magnification (dBA)</th>
<th>Recommended Frequency (Hz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MN-3</td>
<td>8 - 14</td>
<td>12 - 10</td>
<td>12</td>
<td>17</td>
</tr>
<tr>
<td>MN-5</td>
<td>14 - 22</td>
<td>11 - 10</td>
<td>14 - 13</td>
<td>16</td>
</tr>
<tr>
<td>MN-7</td>
<td>22 - 34</td>
<td>11 - 10</td>
<td>16 - 15</td>
<td>16</td>
</tr>
<tr>
<td>MN-10</td>
<td>34 - 50</td>
<td>11 - 10</td>
<td>20 - 18</td>
<td>16</td>
</tr>
</tbody>
</table>

Bolt material: Iron with trivalent chromate plating

**Type Ø-TW**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Optimum Load (kg/cm²)</th>
<th>Resonance Point (Hz)</th>
<th>Resonance Magnification (dBA)</th>
<th>Recommended Frequency (Hz)</th>
<th>h (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø-TW</td>
<td>50 - 100</td>
<td>10 - 8</td>
<td>20 - 19</td>
<td>14</td>
<td>13</td>
</tr>
</tbody>
</table>

Bolt material: Iron with trivalent chromate plating

**Type SF**

For applications where a bottom plate is preferred instead of a bolt,

**Type SF**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Optimum Load (kg/cm²)</th>
<th>Resonance Point (Hz)</th>
<th>Resonance Magnification (dBA)</th>
<th>Recommended Frequency (Hz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SF-2</td>
<td>5 - 13</td>
<td>15 - 10</td>
<td>12 - 13</td>
<td>22</td>
</tr>
<tr>
<td>SF-5</td>
<td>13 - 30</td>
<td>13 - 9</td>
<td>15 - 16</td>
<td>19</td>
</tr>
<tr>
<td>SF-10</td>
<td>30 - 50</td>
<td>12 - 9</td>
<td>19 - 21</td>
<td>17</td>
</tr>
</tbody>
</table>

Upper bolt material: Iron with trivalent chromate plating
Bottom plate material: SU3030A

**Rubber-coated Type SF**

For applications where a bottom plate is preferable and there is a need for damping heavy-load vibration.

- Good for outdoor use in particular due to reinforced durability deriving from rubber wrapped by bel lows type EPDM rubber.
- Stable performance in the -20°C (-4°F) to 90°C (194°F) range.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Optimum Load (kg/cm²)</th>
<th>Resonance Point (Hz)</th>
<th>Resonance Magnification (dBA)</th>
<th>Recommended Frequency (Hz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SF-30</td>
<td>100 - 140</td>
<td>8 - 9</td>
<td>18 - 19</td>
<td>13</td>
</tr>
<tr>
<td>SF-50</td>
<td>120 - 300</td>
<td>10 - 15</td>
<td>12 - 18</td>
<td>15</td>
</tr>
</tbody>
</table>

Metal parts have a choice between following 1 and 2.
1 Upper bolt / Bottom plate material: Iron with trivalent chromate plating
2 Upper bolt / Bottom plate material: SU3030A

**Installation**

*Always use in compression.*

**Correct Use**
- Even load
- Compressively suspended

**Incorrect Use**
- Uneven load
- Twisted
- Tensile direction
- Shearing direction

*The height of the insulator may vary as the GEL is compressed under load.
*The direction of the slot on the head of screw is controlled.
*Always remove the GEL horn around the edge of metal. This could cause detachment of GEL from metal.

**Type BG**

Supported by a spring, type BG is effective for vertical vibration damping in particular.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Optimum Load (kg/cm²)</th>
<th>Resonance Point (Hz)</th>
<th>Resonance Magnification (dBA)</th>
<th>Recommended Frequency (Hz)</th>
<th>Bolt Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>BG-7</td>
<td>3.2 - 6.4</td>
<td>10 - 8</td>
<td>16 - 14</td>
<td>16</td>
<td>M-3</td>
</tr>
<tr>
<td>BG-8</td>
<td>6 - 16</td>
<td>10 - 8</td>
<td>18 - 16</td>
<td>16</td>
<td>M-6</td>
</tr>
</tbody>
</table>

Bolt material: Brass
Spring material: SWPA with trivalent chromate plating
**GEL Bush**

**Features**
- Designed to damp tiny-to-light-load and micro vibration.
- Effective for minimizing horizontal drift, using a bolt running through GEL Bush.
- Along with its shock absorbing capability, GEL Bush is ideal for light and fragile objects including PCBs (printed circuit boards).
- Available for loads from 0.2 kg (0.44 lb) to 32 kg (70.55 lb) with 4 points of support.

<table>
<thead>
<tr>
<th>Type A</th>
<th>Part No.</th>
<th>Optimum Load (kgf points)</th>
<th>Resonance Point (Hz)</th>
<th>Resonance Magnification (dB)</th>
<th>Recommended Frequency (Hz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-1</td>
<td>0.5 - 2.5</td>
<td>67 - 35</td>
<td>9 - 10</td>
<td>0.5kg: 95 - 2.5kg: 50 -</td>
<td></td>
</tr>
<tr>
<td>A-2</td>
<td>2.5 - 4.0</td>
<td>49 - 37</td>
<td>15 - 16</td>
<td>2.5kg: 70 - 4kg: 55 -</td>
<td></td>
</tr>
</tbody>
</table>

Collar material: Brass

<table>
<thead>
<tr>
<th>Type B</th>
<th>Part No.</th>
<th>Optimum Load (kgf points)</th>
<th>Resonance Point (Hz)</th>
<th>Resonance Magnification (dB)</th>
<th>Recommended Frequency (Hz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>B-1</td>
<td>4 - 15</td>
<td>49 - 23</td>
<td>15 - 17</td>
<td>4kg: 70 - 15kg: 35 -</td>
<td></td>
</tr>
<tr>
<td>B-2</td>
<td>15 - 32</td>
<td>38 - 20</td>
<td>19 - 23</td>
<td>15kg: 40 - 32kg: 25 -</td>
<td></td>
</tr>
</tbody>
</table>

Collar material: Brass

<table>
<thead>
<tr>
<th>Type S</th>
<th>Part No.</th>
<th>Optimum Load (kgf points)</th>
<th>Resonance Point (Hz)</th>
<th>Resonance Magnification (dB)</th>
<th>Recommended Frequency (Hz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>S</td>
<td>0.2 - 0.75</td>
<td>64 - 42</td>
<td>7 - 9</td>
<td>0.2kg: 90 - 0.75kg: 60 -</td>
<td></td>
</tr>
</tbody>
</table>

Collar material: Brass

*These data were obtained with 12.9mm-thick PCB panel distributed for type A, 12.9mm for type B, and 12.9mm for type S.
*Documented frequency depends on bolts.
*When this product is very soft and easily damaged, please handle with care.

**Notes**
- Tighten the bolt all the way to the collar.
- Usable bolts are M3 or smaller for type A, M4 or smaller for type B, and M5 or smaller for type S.
- Use a washer equal or bigger than the diameter of the upper portion of GEL Bush.
- Collar inside the GEL Bush can be removed for use.

**Damping Characteristics**

**SN Sheet**

**Features**
- Add more or divide SN Sheet flexibly for a wide range of load requirements.
- Just place it under the device. Removeable anytime.
- Stable with small resonance magnification and little horizontal distortion.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Optimum Load (kgf Sheet)</th>
<th>Resonance Point (Hz)</th>
<th>Resonance Magnification (dB)</th>
<th>Recommended Frequency (Hz)</th>
<th>Deflection (mm)</th>
<th>Color</th>
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</thead>
<tbody>
<tr>
<td>SN-2</td>
<td>0.5 - 2</td>
<td>27 - 21</td>
<td>6</td>
<td>38 -</td>
<td>1.4 - 3.0</td>
<td>yellow</td>
</tr>
<tr>
<td>SN-5</td>
<td>2 - 5</td>
<td>29 - 23</td>
<td>8</td>
<td>40 -</td>
<td>1.5 - 2.5</td>
<td>green</td>
</tr>
<tr>
<td>SN-15</td>
<td>5 - 15</td>
<td>26 - 18</td>
<td>13</td>
<td>37 -</td>
<td>1.7 - 2.2</td>
<td>orange</td>
</tr>
<tr>
<td>SN-50</td>
<td>15 - 50</td>
<td>22 - 15</td>
<td>20 - 18</td>
<td>30 -</td>
<td>0.7 - 2.0</td>
<td>blue</td>
</tr>
</tbody>
</table>

**Notes**
- Place SN Sheet (or portions of them) so that the vibrating object becomes stable.
- Place SN Sheet so that the load of the vibrating object is spread evenly on the projections.
- Placing a flat plate on the top surface of SN Sheet helps.
- Remove the protective PET film from the bottom face before use.

**Damping Characteristics**

**Installation**

**Terminology**

**Optimum Load**
- Least of our vibration-damping products is designed to work best for a certain range of weight (optimum load). Select the best one based on the load of the vibrating object. Optimum load assumes 4 points of support (one sheet for SN Sheet).

- Resonance Point (Hz)
  - The frequency at which the object reaches maximum vibration when it is externally vibrated on a vibration damping product. Resonance point is determined by the spring constant of the vibration damping products and the weight of the vibrating object.

- Resonance Magnification (dB)
  - Resonance magnification is the ratio, at resonance point, of the vibration amplitude with the vibration damping products to that of without them. The vibrating object will vibrate at about twice the amplitude at 6dB, at about five times at 14dB, and at about ten times at 20dB, compared to when no vibration damping products are used.

- Recommended Frequency (Hz)
  - For effective vibration damping, the frequency of the vibrating object needs to be at least $\sqrt{T}$ the resonance point. Recommended frequency is defined as the range above this frequency. Select the best one based on the frequency of the vibrating object.
**GEL Tape & GEL Chip**

**Features**
- Simple and easy solution for vibration isolation and shock absorption with adhesive on one side.
  - Wide selection to choose from based on width and thickness.
  - Very easy and effective solution for shock absorption and vibration damping where no space is allowed for insulators or bushes.
  - Wide temperature range from -40°C (-40°F) to 100°C (212°F).

<table>
<thead>
<tr>
<th>Item</th>
<th>W (mm) x L (mm) x T (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GT-1</td>
<td>10 x 1,000 x 1</td>
</tr>
<tr>
<td>GT-2</td>
<td>20 x 1,000 x 1</td>
</tr>
<tr>
<td>GT-3</td>
<td>10 x 1,000 x 2</td>
</tr>
<tr>
<td>GT-4</td>
<td>20 x 1,000 x 2</td>
</tr>
<tr>
<td>GT-5</td>
<td>10 x 1,000 x 3</td>
</tr>
<tr>
<td>GT-6</td>
<td>20 x 1,000 x 3</td>
</tr>
</tbody>
</table>

Note: Custom size rolls available.

**GEL Chip**

<table>
<thead>
<tr>
<th>Item</th>
<th>W (mm) x L (mm) x T (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GC-1</td>
<td>10 x 10 x 3</td>
</tr>
<tr>
<td>GC-2</td>
<td>10 x 10 x 5</td>
</tr>
<tr>
<td>GC-3</td>
<td>15 x 15 x 3</td>
</tr>
<tr>
<td>GC-4</td>
<td>15 x 15 x 5</td>
</tr>
<tr>
<td>GC-5</td>
<td>15 x 15 x 10</td>
</tr>
<tr>
<td>GC-6</td>
<td>20 x 20 x 3</td>
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<tr>
<td>GC-7</td>
<td>20 x 20 x 5</td>
</tr>
<tr>
<td>GC-8</td>
<td>20 x 20 x 10</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Item</th>
<th>W (mm) x L (mm) x T (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GT-1</td>
<td>10 x 1,000 x 1</td>
</tr>
<tr>
<td>GT-2</td>
<td>20 x 1,000 x 1</td>
</tr>
<tr>
<td>GT-3</td>
<td>10 x 1,000 x 2</td>
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<tr>
<td>GT-4</td>
<td>20 x 1,000 x 2</td>
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<tr>
<td>GT-5</td>
<td>10 x 1,000 x 3</td>
</tr>
<tr>
<td>GT-6</td>
<td>20 x 1,000 x 3</td>
</tr>
</tbody>
</table>

**NP GEL**

**Features**
- Lightweight and highly durable foamed type.
  - With low compression set, performance of NP GEL is maintained even after repeated compression.
  - Highly flame retardant and operable in the -40°C (-40°F) to 200°C (392°F) range.
  - Good for outdoor use because it is highly resistant to weather and ozone.

<table>
<thead>
<tr>
<th>Item</th>
<th>W (mm) x L (mm) x T (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Green</td>
<td>450 x 2,000 x 3</td>
</tr>
<tr>
<td>White</td>
<td>300 x 1,000 x 6</td>
</tr>
</tbody>
</table>

**Compression Set**

Urethane foam
Polyethylene foam
Chloroprene

<table>
<thead>
<tr>
<th>Item</th>
<th>Compression (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Green</td>
<td></td>
</tr>
<tr>
<td>White</td>
<td></td>
</tr>
</tbody>
</table>

**Notes**
- Before use, remove dust from the object.
- Attach with even pressure after removing the separation liner paper.
- Apply sufficient pressure to securely attach PSA (pressure-sensitive adhesive).
- Powder is applied to the surface of GEL.

**Lambda GEL ( Lambda GEL )**

**Features**
- Lambda GEL is CCl₃-based functional material for thermal conductivity, electromagnetic absorption and electric insulation.
  - Soft, sticky and conformable. Lambda GEL often exhibits performance much better than published specifications due to close contact.

[COIL series] Sheet-type thermal conductive GEL
[DP series] Paste-type thermal conductive GEL
[RE series] Sheet-type thermal conductive + electromagnetic absorbent GEL

- Refer to the separate brochures for details of the Lambda GEL series.

**Thermal Conductivity and Flexibility**

![Thermal Conductivity and Flexibility graph]

**Frequency Range**

![Frequency Range graph]

**Note**

- Under certain conditions such as hard-pressed use, silicone oil may bleed.

**Notes**
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- The brochure is revised all the time. The data in the brochure may be changed without notice. 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 or damage, incidental, direct, or consequential arising out of or in connection with the use or of 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 Alpha-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 siloxanes, which could be volatile.
- The powder is applied on the surface of the GEL, to reduce the tackiness temporarily and does not guarantee its effect.