

The case for conveyance of precision devices.

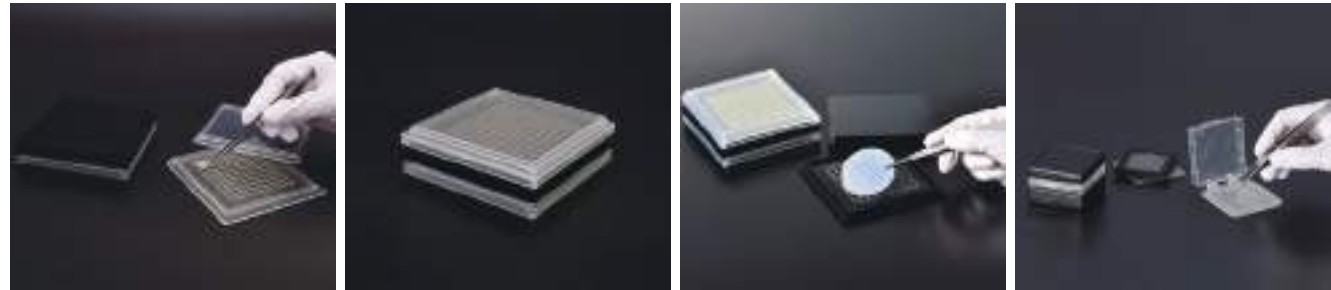
GEL-BASE® series

POINT

- 1 Soft gel prevents some damages from vibration during convey the precision parts.
- 2 Since no adhesive is used, an adhesive does not transfer to parts.
- 3 Silicone is not used as material.
- 4 Cloudy and Mesh type has an uneven surface, so it is possible to pick up without a vacuum equipment.

Image for use

Check the video ▶▶



Adhesive gel has an uneven surface, so it is possible to pick up easily without a vacuum equipment. (Cloudy / Mesh)

Case and tray are stackable.

For transporting electronic components. Also available 2-inch size.

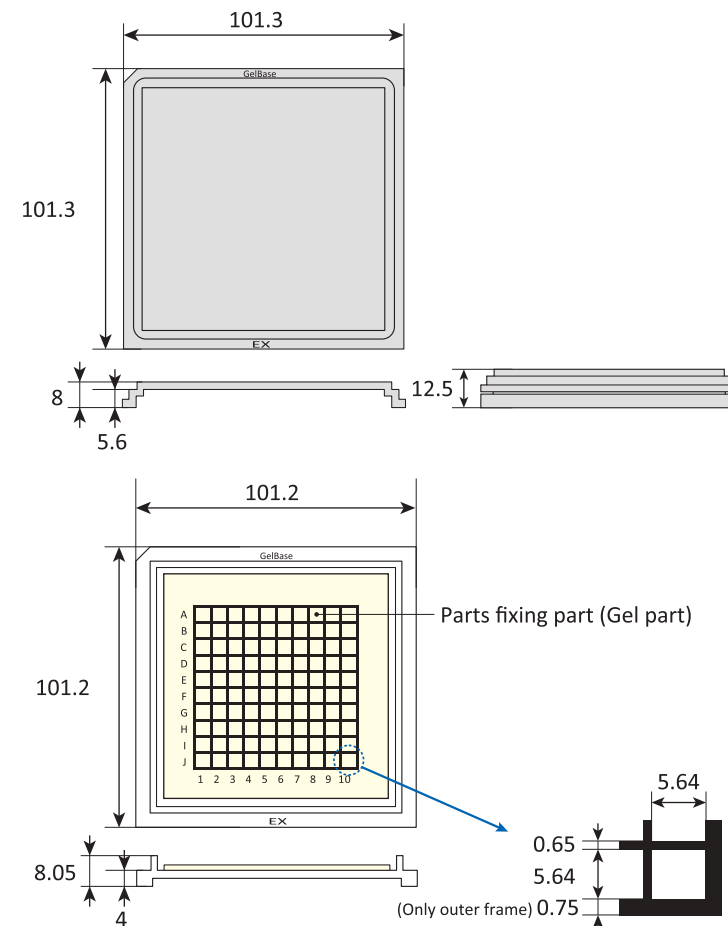
Characteristics / Product dimensions

*We also hear to custom printing. (Special order) *Measured value is a reference, not guaranteed value.

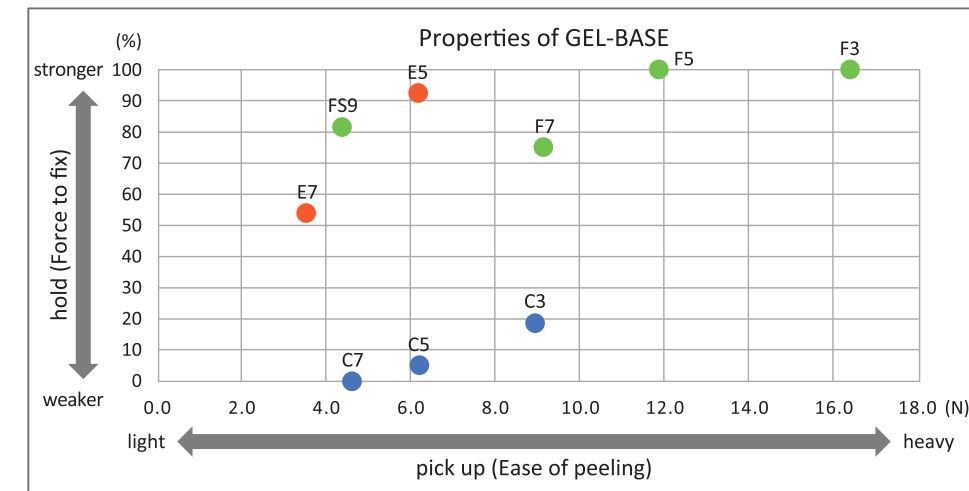
GEL-BASE® 4-inch

| | Size (mm) | Color | Surface resistance (Ω) | Silicone | |
|-----------|----------------------|-------|------------------------|-----------------|-----------------|
| Case lid | 101.3×101.3 ×8 | Black | 10 ¹¹ | Non Silicone | |
| | | Clear | 10 ¹³ | | |
| Case body | 101.2×101.2 ×8.05 | Black | 10 ¹¹ | | |
| | | Clear | 10 ¹³ | | |
| Gel | 85×85 | Amber | FS9 | | 10 ⁹ |
| | | | F7 | | 10 ⁹ |
| | | | F5 | | 10 ⁸ |
| | | | F3 | | 10 ⁷ |
| | | | C7 | | 10 ⁹ |
| | | | C5 | | 10 ⁸ |
| | | | C3 | 10 ⁸ | |
| | | | E7 | 10 ⁹ | |
| | | | E5 | 10 ⁸ | |

Case lid / Case body



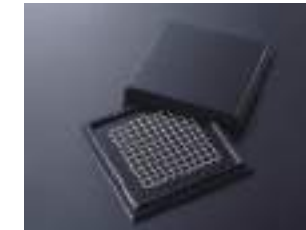
Adhesive properties of GEL-BASE



*Varies depending on surface condition, material, weight and size.
 *A glass plate is used for the pick-up test, and a ceramic plate is used for the hold test.
 *"Pick up" means how easy it is to peel off the conveyed product.
 *"hold" means the force to fix the conveyed product.
 *Measured values are reference values, not guaranteed values.

GEL-BASE® 4-inch

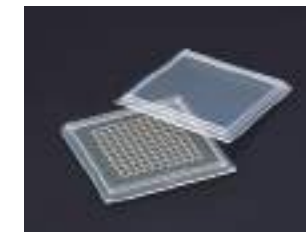
A set of body and lid. Please choice the color of case.



GEL-BASE® 4-inch Flat type

| Part Number | Shape of gel | Adhesive force (N/25mm) | Clearance |
|----------------------------------|--------------|-------------------------|-----------|
| Black: 4CB-FS9P, Clear: 4CT-FS9P | Flat FS9 | approx. 0.007 | 4.5mm |
| Black: 4CB-F7P, Clear: 4CT-F7P | Flat F7 | approx. 0.24 | |
| Black: 4CB-F5P, Clear: 4CT-F5P | Flat F5 | approx. 1.23 | |
| Black: 4CB-F3P, Clear: 4CT-F3P | Flat F3 | approx. 1.51 | |

*Adhesive force (N/25mm) is a reference value.



GEL-BASE® 4-inch Cloudy type

| Part Number | Shape of gel | Adhesive force (N/25mm) | Clearance |
|--------------------------------|--------------|-------------------------|-----------|
| Black: 4CB-C7P, Clear: 4CT-C7P | Cloudy C7 | approx. 0.04 | 4.5mm |
| Black: 4CB-C5P, Clear: 4CT-C5P | Cloudy C5 | approx. 0.14 | |
| Black: 4CB-C3P, Clear: 4CT-C3P | Cloudy C3 | approx. 0.74 | |

*Adhesive force (N/25mm) is a reference value.



GEL-BASE® 4-inch Mesh type

| Part Number | Shape of gel | Adhesive force (N/25mm) | Clearance |
|--------------------------------|--------------|-------------------------|-----------|
| Black: 4CB-E7P, Clear: 4CT-E7P | Mesh E7 | approx. 0.09 | 4.5mm |
| Black: 4CB-E5P, Clear: 4CT-E5P | Mesh E5 | approx. 0.48 | |

*Adhesive force (N/25mm) is a reference value.

CHECK

We also accept consultations regarding printing specifications for adhesive strength and part fixing parts.

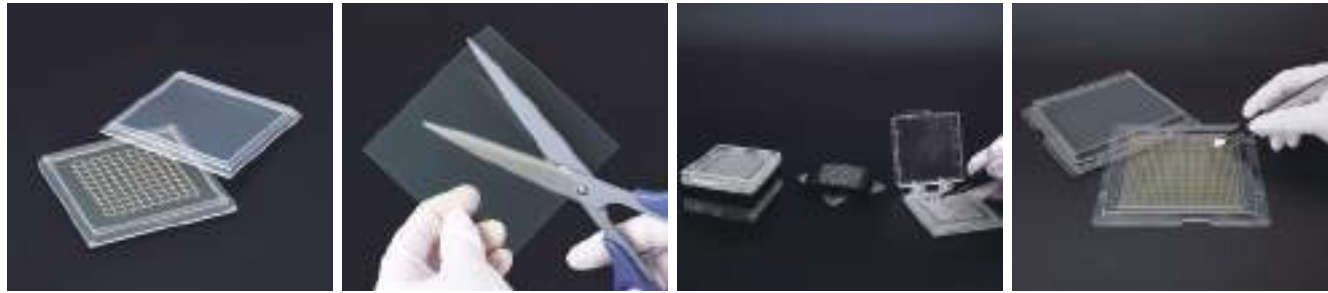
For temporary fixing sheet of precision device.

GEL-BASE[®] sheet series

POINT

- 1 Cloudy, Mesh, and Dot type have an uneven surface, so it is possible to pick up without a vacuum equipment.
- 2 Since no adhesive is used, an adhesive does not transfer to parts.
- 3 It is possible to use it by attaching the sheet to your existing tray.
- 4 Silicone is not used as material and separator.

Image for use



It is possible to paste into a tray.

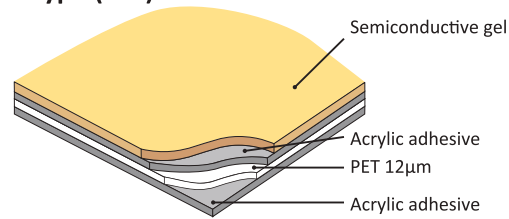
It can be cut with scissors.

Also sold with a case.

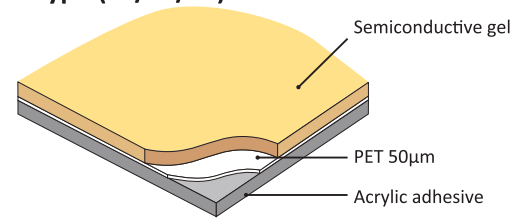
It is possible to use it by attaching the sheet to your existing tray.

Structure (There are protective films on both sides of the product.)

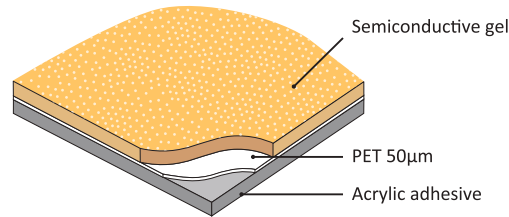
Flat type (FS9)



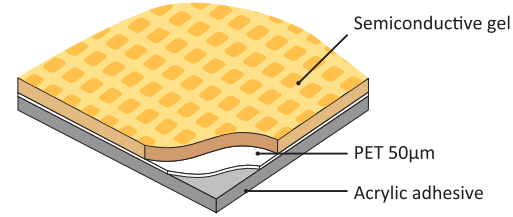
Flat type (F7/F5/F3)



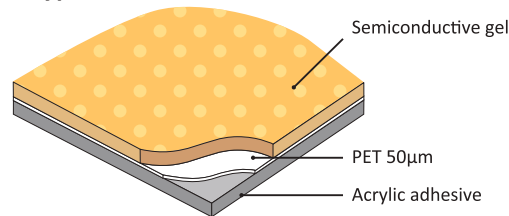
Cloudy type



Mesh type



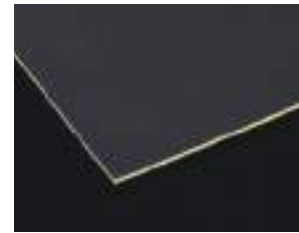
Dot type



GEL-BASE[®] sheet Flat type



It is possible to paste the sheet into your tray with cutting. One side is adhesive.

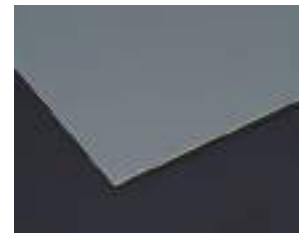


| Part Number | Shape | Size (mm) | Thickness (mm) | Color |
|-------------|----------|-----------|----------------|-------|
| GB-FS9T | Flat FS9 | 500×400 | 0.5 | Amber |
| GB-F7T | Flat F7 | | | |
| GB-F5T | Flat F5 | | | |
| GB-F3T | Flat F3 | | | |

GEL-BASE[®] sheet Cloudy type



Surface is fine unevenness shape, and it is easy to pick up. One side is adhesive.

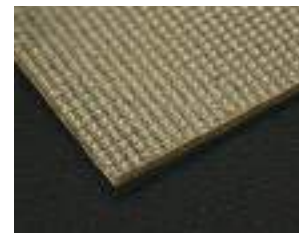


| Part Number | Shape | Size (mm) | Thickness (mm) | Color |
|-------------|-----------|-----------|----------------|-------|
| GB-C7 | Cloudy C7 | 500×400 | 0.5 | Amber |
| GB-C5 | Cloudy C5 | | | |
| GB-C3 | Cloudy C3 | | | |

GEL-BASE[®] sheet Mesh type



Surface is mesh-patterned, and it is easy to pick up. One side is adhesive.

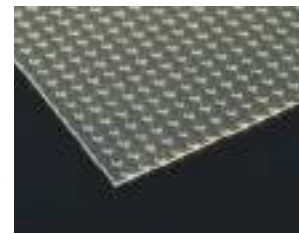


| Part Number | Shape | Size (mm) | Thickness (mm) | Color |
|-------------|---------|-----------|----------------|-------|
| GB-E7 | Mesh E7 | 500×400 | 0.5 | Amber |
| GB-E5 | Mesh E5 | | | |

GEL-BASE[®] sheet Dot type



Surface is unevenness shape, and it is easy to pick up. One side is adhesive.



| Part Number | Shape | Size (mm) | Thickness (mm) | Color |
|-------------|--------|-----------|----------------|-------|
| GB-D7 | Dot D7 | 240×240 | 1.0 | Amber |

CHECK

It is possible to change the adhesive force to slightly stronger gel. (Build-to-order)
We also accept requests for cutting and punching, so please feel free to contact us.

Semiconductive adhesive mat for soles of shoes and hand trucks.

STEP-MAT[®] semiconductive type

POINT

- 1 The semiconductive adhesive mat for soles of shoes that can be used repeatedly by wiping with water.
- 2 Remove contaminants of soles of shoes 90% or more. (When stepping three times on the mat.)
- 3 Because the surface resistance is $10^9\Omega$, it can be used in environments where static electricity is a concern.
- 4 Antibacterial and antifungal agents were mixed and the mats prevent breeding of bacteria.

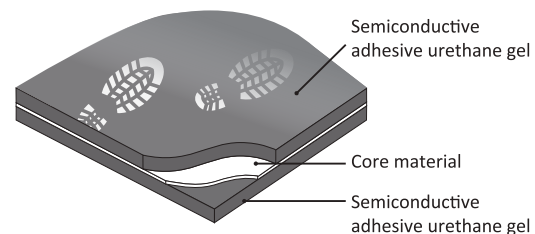
Image for use



Before entering the clean area.

For removing dirt of tire from hand trucks.

Structure (There are protective films on both sides of the product.)



It does not need double sided tape to install, so it is possible to install as it is.

*If you install the mat to rough surface, please install stainless steel plate to the floor and then install the mat on it.

How to clean



Please clean the mats with water or our special detergent when the adhesive becomes weak. Then adhesive force will return to normal after cleaning and can be used repeatedly.

*We recommend to increase the number of cleaning or area of mats if traffic is a lot. Then the effect persists.

Test of removal rate [Check the details](#)



! ATP (+AMP) Wipe inspection

| STEP-MAT semiconductive type | Peeling type of mat |
|------------------------------|---------------------|
| 90% or more | about 60% |

*Lumitester is made by Kikkoman.

*This result is confirmation test in-house. There is also the case that the same result can not be obtained.

Peeling type of mat does not remove about 40% of dust and grime, so dusts may move with the soles of shoes.

While STEP-MAT semiconductive type can remove 90% or more.

STEP-MAT[®] semiconductive type

Remove fine dust and grime from soles of shoes. It is possible to use repeatedly by wiping with water.



| Part Number | Size (mm) | Thickness (mm) | Color | Surface resistance (Ω) |
|--------------------|-----------|----------------|-------|---------------------------------|
| MAT3-0906VE | 900×600 | 3.0 | Gray | 10^9 |
| MAT3-1209VE | 1200×900 | | | |

*Avoid installing on floors containing a lot of soft PVC or plasticizer.



Related products

Aluminum slope / Sponge mop / Disinfectant cleaner (P.11,12)

Remove the dust and grime of clothes and gloves.

Body-roller semiconductive type

POINT

- 1 It can be used repeatedly by washing with water, and it is not peeling type.
- 2 The soft and thick gel removes dirt and dust adhering to clothing.
- 3 Because the surface resistance is $10^9\Omega$, it can be used in environments where static electricity is a concern.
- 4 Silicone is not included in roller part. (*Excluding handle)

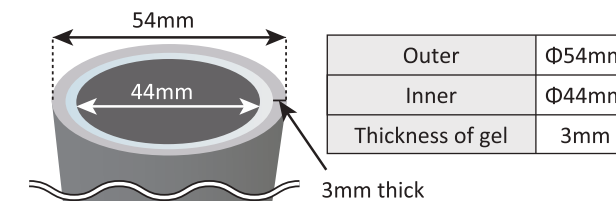
Image for use



Before entering workrooms.

For cleaning workbench in clean room.

Structure



How to clean



The dirt of roller is rubbed softly with the palm with running water, and adhesive force will return to normal after dried. So it is possible to use repeatedly. It is possible to use longer and more clean with using our special detergent (P.12).

Test of removal rate [Check the details](#)



! ATP (+AMP) Wipe inspection

| Body-roller semiconductive type | Peeling type of roller |
|---------------------------------|------------------------|
| 90% or more | about 60% |

*Lumitester is made by Kikkoman.

*This result is confirmation test in-house. There is also the case that the same result can not be obtained.

Peeling type of roller does not remove about 40% of dust and grime, so dusts may move with the hands or clothes.

While Body-roller semiconductive type can remove 90% or more.

Body-roller semiconductive type

It is for body, which with a handle to make it easier to have. It can easily reach your back.



| Part Number | Roller Size (mm) | Color | Surface resistance (Ω) |
|----------------------|---------------------------------------|-------|---------------------------------|
| BR30-5016VE | Φ54×160 (all dimensions : about 35cm) | Gray | 10^9 |
| BR30-5016VE-S | Φ54×160 Spare of roller | | |

*Please do not store while remaining in contact with wall or floor.

*Two caps to attach handle are included spare of roller.



CHECK

Custom-width are also available, please contact us.
(Inner Φ44mm / Outer Φ54mm)

***Maximum width : 500mm**

Gel cleaner pen series

POINT

- 1 Glue does not believe remnants, because of self-adhesive of urethane.
- 2 It does not damage to tip and devices because of soft materials.
- 3 It is possible to use repeatedly by washing with water.

Image for use



Remove dust of printed board and devices, and for picking of small parts.

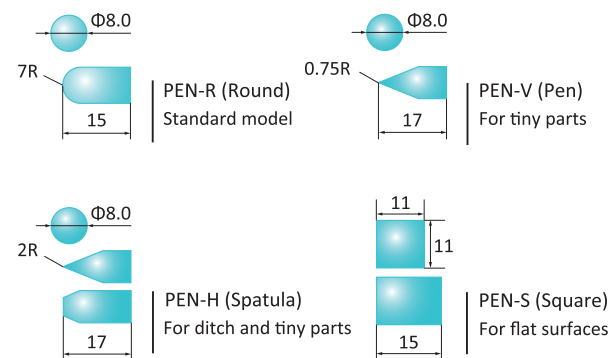
Remove dust softly with adhesive of gel.

In an original box to keep clean the nib. (Gel cleaner pen 4 pieces set)

For picking parts.

Structure

You can choose the shapes of nib according to use.



How to clean



It is possible to reduce the number of cleanings by transferring a dirt of nib to Cleaner base or Semiconductive gel sheet. Then it is possible to use repeatedly by washing with water if Gel cleaner pen, Cleaner base, and transferred sheet are stained.

How to use

- Pat the parts you care a dust and dirt with nib, and collect foreign matters like a dust.
- The foreign matters you collected transfer to Cleaner base or Semiconductive gel sheet (sold separately), or wash out by water.
- It is possible to use as picking of small parts with adhesive of gel.
- *Please patting nib, not dragging. If you drag, the nib may shave.



Gel cleaner pen

Remove dusts and grime without glue.



| Part Number | Shape | Quantity |
|--------------|---------|----------|
| PEN-R | Round | 1 |
| PEN-V | Pen | |
| PEN-H | Spatula | |
| PEN-S | Square | |

CHECK

It is possible to change the adhesive force, please contact us.



Gel cleaner pen spare

| Part Number | Shape | Quantity |
|---------------|---------|----------|
| PEN-RS | Round | 1 |
| PEN-VS | Pen | |
| PEN-HS | Spatula | |
| PEN-SS | Square | |

Gel cleaner pen 4 pieces set

The set includes 4 types pens and transferred sheet in a convenient case for storage.



| Part Number | Details |
|---------------|------------------------------------------------------------------------|
| PENSET | Gel cleaner pen (Round/Pen/Spatula/Square) each 1pc, Transferred sheet |

*It is possible to use Semiconductive gel sheet (P.31) as a transferred sheet.

Cleaner base

A cased adhesive sheets transfer a dirt of nib by stronger adhesion. It is possible to use repeatedly by washing with water.



| Part Number | Size (mm) | Thickness (mm) | Details |
|---------------|-----------|----------------|-----------|
| PEN-CB | 40x40 | 3.0 | With case |

Adhesive sheet to transfer dusts of gloves and rollers.

Semiconductive gel sheet

POINT

- ① It is used adhesive urethane gel with an antistatic effect.
- ② Remove dust of gloves or parts by self-adhesive of urethane gel.
- ③ It is possible to use repeatedly by washing with a water.
- ④ It can be used in areas where static electricity is a problem.

Image for use



Adhesive sheet that transfers and absorbs dust with the power of urethane gel.



It can be used in areas where static electricity is a problem.

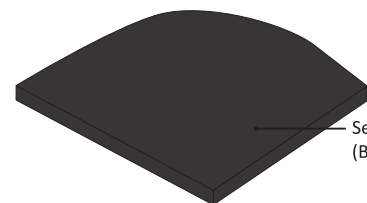


As transferred sheet of dirty Gel cleaner pen (P.29).



As transferred sheet of dirty Semiconductive gel roller (P.33).

Structure (There are protective films on both sides of the product.)



Semiconductive gel sheet (Black)

The urethane gel sheet has semiconductivity. The material has an adhesive and an antistatic effect. It is possible to use for dust removal sheet or anti-slip sheet.

Characteristics

| Hardness | Surface resistance(Ω) |
|-----------|-----------------------|
| Asker C15 | 10 ⁸ |
| Asker C30 | 10 ⁸ |
| Asker C50 | 10 ⁸ |

*This measured value is a reference value, it is not a guaranteed value.
*It changes without notice by specification changes.

How to use

- Lightly press the object you want to remove dust against the sheet.
- When transferring dust on the roller, roll the dirty roller on the sheet.
- When the adhesive strength is reduced due to dirt, wash it with water to restore the adhesive strength and use it repeatedly.



Press gloves against a sheet to remove dusts.



Transfer the dusts which removed by adhesive roller to Semiconductive gel sheet.



The adhesive power is restored by washing with water.

Caution

Notes

- It may deteriorate depending on washing with water frequency and how to use.
- Avoid using to materials containing a lot of soft PVC or plasticizer.

Semiconductive gel sheet

Semiconductivity urethane gel sheet. It is possible to use for dust removal sheet or anti-slip sheet.



| Part Number / Hardness | | | Size (mm) | Thickness (mm) |
|------------------------|---------------|--------------|-----------|----------------|
| Asker C15 | Asker C30 | Asker C50 | | |
| E1510 | E3010 | E5010 | 500×500 | 1.0 |
| E1520 | E3020 | E5020 | | 2.0 |
| E1530 | E3030* | E5030 | | 3.0 |

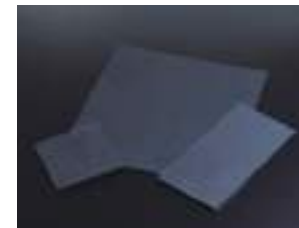
The mark of "*" is normal stock.

CHECK

We also hear to cut to the size your choice, please contact us.

Semiconductive gel sheet cutting type

The sheets are cut to tabletop sizes for using easily. It is possible to use as transferred sheet of Gel cleaner pen (P.29).



| Part Number / Hardness | | | Size (mm) | Thickness (mm) |
|------------------------|--------------------|-------------------|-----------|----------------|
| Asker C15 | Asker C30 | Asker C50 | | |
| E1530-1010 | E3030-1010* | E5030-1010 | 100×100 | 3.0 |
| E1530-2010 | E3030-2010* | E5030-2010 | 200×100 | |
| E1530-2525 | E3030-2525* | E5030-2525 | 250×250 | |
| E1530-2550 | E3030-2550* | E5030-2550 | 500×250 | |

The mark of "*" is normal stock.



Semiconductive adhesive roller for removal of foreign matters.

Semiconductive gel roller

POINT

- 1 Adhesive gel roller with anti-static effect.
- 2 Remove dusts without glue because of self-adhesive of urethane gel.
- 3 Acceptable value of detection limit for residual ion concentration (Cation : 0.05ppm, Anion : under 0.01ppm)

Image for use



For removing dust in places where static electricity is a problem.

It is possible to transfer a dirt to Semiconductive gel sheet (P.31).

How to use

- Clean an area where you want to remove dusts with a roller.
- Please roll the dirty roller on the transfer sheet if you transfer dusts.
- It is possible to use repeatedly by washing with water when the adhesive force gets to weak by dirt.

Semiconductive gel roller



Conductive urethane gel is used for the roller and metal is used for the grip to ensure conductivity.



| Part Number | Roller Diameter (mm) | Roller Width (mm) | Adhesive force (N/cm ²) | External dimensions (mm) Full length×Width×Height |
|-------------|----------------------|-------------------|-------------------------------------|------------------------------------------------------|
| EX215-AS | Φ20 | 17.5 | approx.7 | 160×20×20 |
| EX230-AS | Φ20 | 30 | | 154×36×38 |
| EX355-AS | Φ30 | 55 | | 169×65×52 |
| EX311C-AS | Φ30 | 111 | | 150×132×63 |
| EX316C-AS | Φ30 | 160 | | 150×182×63 |
| EX325C-AS | Φ30 | 250 | | 150×272×63 |
| EX430C-AS | Φ40 | 300 | | 155×322×68 |

Related products

Semiconductive gel sheet (P.31)
It can be used as a transfer sheet for dust removed with a roller.

Soft, transparent, and anti-vibration washer

Urethane washer

POINT

- 1 Urethane washer punched from the Pit cushion sheet (P.41).
- 2 Prevents scratches and cracks when tightening glass or acrylic.
- 3 It makes it difficult to transmit vibration and sound, and then it is the most suitable for locking of screw.

Image for use

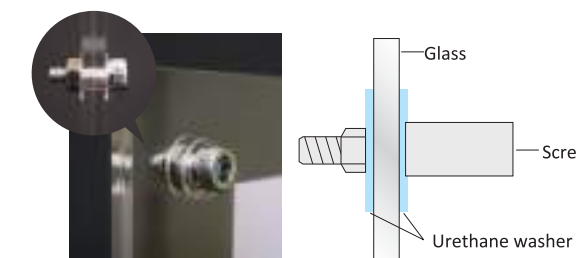


Transparent and soft Urethane washer.

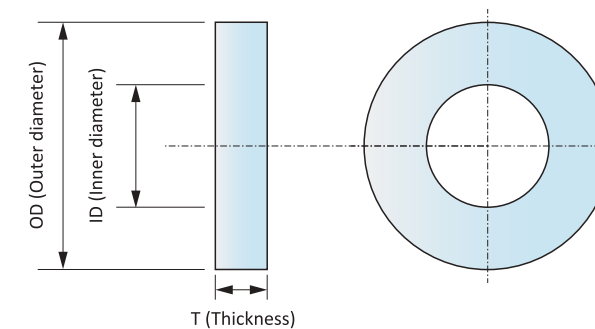
It is also easy to use at where you care an appearance such as glass or acrylic.

How to use

It is used by putting between glass or acrylic and screw.
Example of use : To install hard disk and fan motor.
For buffering of screws of glass and acrylic.



Product size



Urethane washer



It is a transparent and soft Urethane washer.



| Part Number | Size (mm) | | | Hardness | Quantity |
|-------------|---------------------|---------------------|---------------|-----------|----------|
| | ID (Inner diameter) | OD (Outer diameter) | T (Thickness) | | |
| NO.3-80-1 | 3.5 | 8.0 | 1.0 | Asker C80 | 20 |
| NO.4-80-1 | 4.5 | 10.0 | | | |
| NO.5-80-1 | 5.5 | 12.0 | | | |
| NO.6-80-1 | 6.5 | 13.0 | | | |

*Avoid using soft PVC or materials that contain a lot of plasticizer.

CHECK

We also hear the custom-sized that changed thickness and softness, please contact us.