



This series is not a recommended product.  
Not recommended for new design.

## “NASBIS” Insulating Sheet

Type: EYGY

“NASBIS” is a heat insulating sheet, which is composed of silica aerogel and fiber sheet, created through impregnation process. Pore size of silica aerogel is 10 to 60nm, which means it has smaller space than the mean free path of the air, 68nm. Air molecules do not collide against each other inside the pores, and thus the component shows excellent heat insulation performance.

Furthermore, combining NASBIS and PGS Graphite Sheet enables controlling the direction of heat. Composite type provides greater heat insulating performance.



### Features

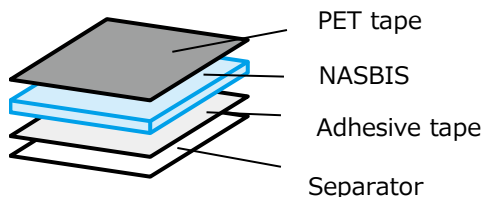
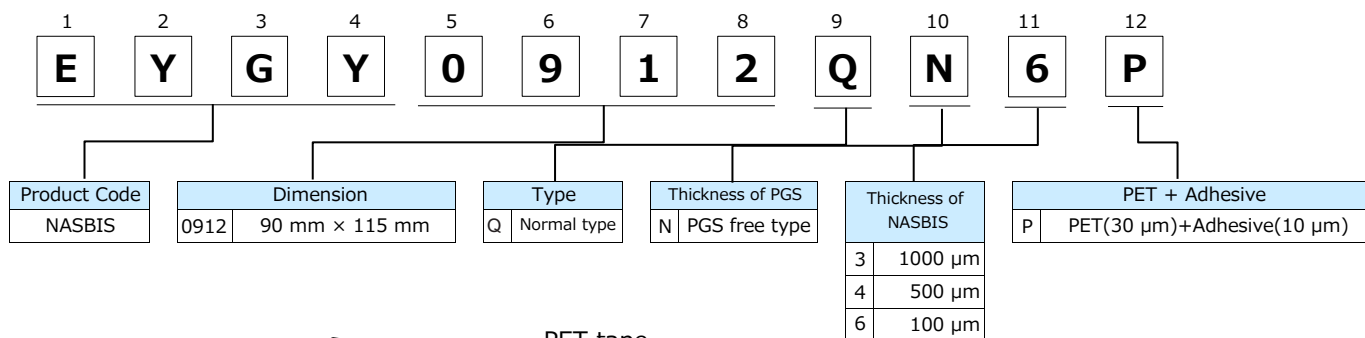
- Low thermal conductivity : 0.020 W/m · K typ.
- Created thin-film sheet ; Thickness : 100 μm to 1000 μm
- Various proposals are available when combined with PGS Graphite sheet
- RoHS compliant

### Recommended applications

- Smartphone, Wearable equipment, Digital Still Camera, Notebook PCs, Tablet PCs

### Explanation of Part Numbers

- NASBIS Pouch Type (EYGY\*\*\*\*\*P)



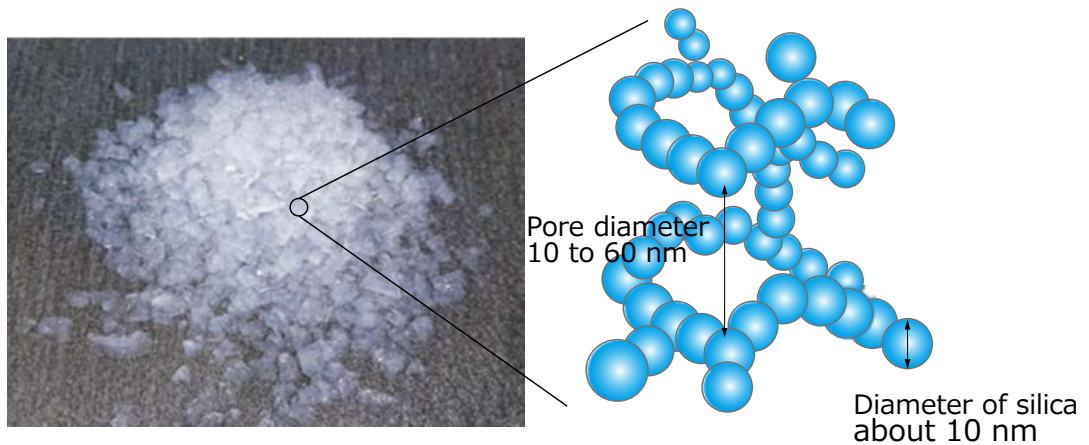
\* Please consult the other configurations separately.

### Characteristics of NASBIS

Thickness	100 μm	500 μm	1000 μm
Thermal conductivity (W/(m·K))	0.018 to 0.026	0.018 to 0.026	0.018 to 0.026
Operating temperature limit (°C)	-20 to 100	-20 to 100	-20 to 100
Size / Laminate pouch (mm)	90 × 115	90 × 115	90 × 115
Heatproof temperature (°C)	100	100	100

Typical values, not guaranteed.

**Appearance of silica aerogel and its nanostructure**



**Composition example**

● **NASBIS Pouch Type**

Type		Y - P type
Structure		<div style="border: 1px solid black; padding: 2px; margin-bottom: 2px; background-color: #cccccc;">PET 30 μm</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px; background-color: #add8e6;">NASBIS*</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px; background-color: #cccccc;">Adhesive 10 μm</div>
Heatproof temperature		100 °C
100 μm*	Part No.	EYGY0912QN6P
	Thickness (μm)	140
500 μm*	Part No.	EYGY0912QN4P
	Thickness (μm)	540
1000 μm*	Part No.	EYGY0912QN3P
	Thickness (μm)	1040

\* Above listed Part No. are examples for evaluation and selection, not for mass production. Customized service available for mass production spec.

■ **Minimum order 10 pcs**

**Guidelines and precautions regarding the technical information and use of our products described in this online catalog.**

- If you want to use our products described in this online catalog for applications requiring special qualities or reliability, or for applications where the failure or malfunction of the products may directly jeopardize human life or potentially cause personal injury (e.g. aircraft and aerospace equipment, traffic and transportation equipment, combustion equipment, medical equipment, accident prevention, anti-crime equipment, and/or safety equipment), it is necessary to verify whether the specifications of our products fit to such applications. Please ensure that you will ask and check with our inquiry desk as to whether the specifications of our products fit to such applications use before you use our products.
- The quality and performance of our products as described in this online catalog only apply to our products when used in isolation. Therefore, please ensure you evaluate and verify our products under the specific circumstances in which our products are assembled in your own products and in which our products will actually be used.
- If you use our products in equipment that requires a high degree of reliability, regardless of the application, it is recommended that you set up protection circuits and redundancy circuits in order to ensure safety of your equipment.
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- The technical information in this online catalog provides examples of our products' typical operations and application circuits. We do not guarantee the non-infringement of third party's intellectual property rights and we do not grant any license, right, or interest in our intellectual property.
- If any of our products, product specifications and/or technical information in this online catalog is to be exported or provided to non-residents, the laws and regulations of the exporting country, especially with regard to security and export control, shall be observed.

**<Regarding the Certificate of Compliance with the EU RoHS Directive/REACH Regulations>**

- The switchover date for compliance with the RoHS Directive/REACH Regulations varies depending on the part number or series of our products.
- When you use the inventory of our products for which it is unclear whether those products are compliant with the RoHS Directive/REACH Regulation, please select "Sales Inquiry" in the website inquiry form and contact us.

**We do not take any responsibility for the use of our products outside the scope of the specifications, descriptions, guidelines and precautions described in this online catalog.**

## Precautions on the whole

- Do not use the products beyond the descriptions in this catalog.
- This catalog guarantees the quality of the products as individual components.  
Before you use the products, please make sure to check and evaluate the products in the circumstance where they are installed in your product.
- This product was designed and manufactured for standard applications such as general electronics devices, office equipment, information and communications equipment, measuring instruments, household appliances and audio-video equipment.  
For applications in which special quality and reliability are required, or if the failure or malfunction of the products may directly jeopardize life or cause threat of personal injury (such as for aircraft and aerospace equipment, traffic and transport equipment, combustion equipment, medical equipment, accident prevention and anti-theft devices, and safety equipment), please be sure to consult with our sales representative in advance and to exchange product catalog which conform to such applications.

## Safety and Design considerations

- We are trying to improve the quality and the reliability, but the durability differs depending on the use environment and the use conditions. On use, be sure to confirm the actual product under the actual use conditions.
- Install the following systems for a failsafe design to ensure safety if these products are to be used in equipment where a defect in these products may cause the loss of human life or other significant damage, such as damage to vehicles (automobile, train, vessel), traffic lights, medical equipment, aerospace equipment, electric heating appliances, combustion/ gas equipment, rotating equipment, and disaster/crime prevention equipment.
  - The system is equipped with a protection circuit and protection device.
  - The system is equipped with a redundant circuit or other system to prevent an unsafe status in the event of a single fault.
  - The system is equipped with an arresting the spread of fire or preventing glitch.
- When a dogma shall be occurred about safety for this product, be sure to inform us rapidly, operate your technical examination.
- The temperature of this product at the time of use changes depending on mounting conditions and usage conditions, therefore, please confirm that the temperature of this product is the specified temperature after mounting it.
- This product does not take the use under the following special environments into consideration. Accordingly, the use in the following special environments, and such environmental conditions may affect the performance of the product; prior to use, verify the performance, reliability, etc. thoroughly.
  - 1) Use in liquids such as water, oil, chemical, and organic solvent.
  - 2) Use under direct sunlight, in outdoor or in dusty atmospheres.
  - 3) Use in places full of corrosive gases such as sea breeze,  $C_{12}$ ,  $H_2S$ ,  $NH_3$ ,  $SO_2$ , and  $NO_x$ .
  - 4) Use the product in a contaminated state.
  - 5) Use in the point being adhered to organic solvent (thinner, alcohol, xylene etc.) or chemical substances (oils, acids, alkali etc.), or being possible to contact with their.  
And use under their gas atmosphere.
  - 6) Use in an environment in contact with silicone resin.
  - 7) Use with ultrasonic and high frequency wave applied.
  - 8) Use under reduced pressure or vacuum.

## Precaution of installation

- Do not reuse this product after removal from the mounting board.
- Do not drop this product on the floor. If this product is dropped, it can be damaged mechanically.  
Avoid using the dropped product.
- Do not touch this product with bare hands.
- This product is soft, do not rub or touch it with rough and sharp-edged materials to avoid scratching it.
- Lines or folds in this product may affect thermal insulation.
- Never touch a this product during use because it may be extremely hot.

- Use protective materials when handling and/or applying this product, do not use items with sharp edges as they might tear or puncture this product.
- The NASBIS shall not be modified and done additional work such as cutting, drilling, nailing, eyelets, screwing, pinning, riveting, polishing, embossing, water cleaning, solvent cleaning, ozone cleaning, plasma exposure, ultraviolet irradiation, plating, painting, printing, deposition, etching, sputtering, heat treatment, surface treatment.
- The NASBIS shall not be reused, repaired and recycled.

### Precaution on storage conditions

- Storage period is less than one year after our shipping inspection is completed.  
Please use within the period.
- If the product is stored in the following environments and conditions, the performance may be badly affected, avoid the storage in the following environments.
  - (1) Storage in places full of corrosive gases such as sea breeze, Cl<sub>2</sub>, H<sub>2</sub>S, NH<sub>3</sub>, SO<sub>2</sub>, and NO<sub>x</sub>.
  - (2) Storage in places exposed to ultraviolet light. \*Recommended storage in the dark.
  - (3) Store at a temperature outside the storage temperature range specified by this catalog.
  - (4) Storage under a load.
- In the case of a product configuration that assumes bonding, please use after checking the adhesiveness of the product when the storage period is over.

### Precaution specific to this product

- NASBIS sheet may release silica powder (electric non-conduct).
- The adhesion between laminate film and NASBIS is very weak, so some parts may be un-bonded depending on the handling.
- The performance of thermal insulation is dependent on the way it is used. Test the adaptability of NASBIS to your application before use.
- The dimension of NASBIS sheet will change when the humidity changes. If you need a precise size we suggest that the NASBIS sheet should be controlled at a certain stored condition and period, and measured at the same conditions.  
ex) The dimensions of NASBIS are assured when stored and measured at 23±2 °C、50±20 %RH.
- The appearance is conducted based on internal standard. When suspicion arises, contact promptly us.

### Applicable laws and regulations, others

- No ODCs or other ozone-depleting substances which are subject to regulation under the Montreal Protocol are used in our manufacturing processes, including in the manufacture of this product.
- This product complies with the RoHS Directive (Restriction of the use of certain Hazardous Substances in electrical and electronic equipment (DIRECTIVE 2011/65/EU and (EU)2015/863) .
- All the materials used in this part are registered material under the Law Concerning the Examination and Regulation of Manufactures etc. of Chemical substances.
- If you need the notice by letter of "A preliminary judgment on the Laws of Japan foreign exchange and Foreign Trade control", be sure to let us know.
- These products are not dangerous goods on the transportation as identified by UN(United Nations) numbers or UN classification.
- As to the disposal of the module, check the method of disposal in each country or region where the modules are incorporated in your products to be used.
- The technical information in this catalog provides examples of our products typical operations and application circuits. We do not guarantee the non-infringement of third party's intellectual property rights and we do not grant any license, right, or interest in our intellectual property.

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