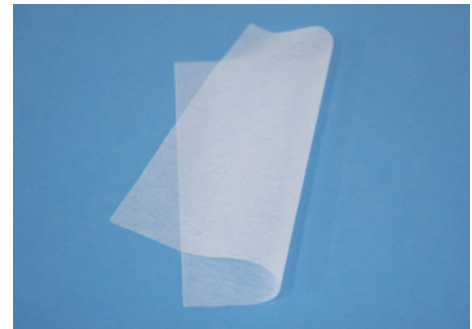


“NASBIS” Insulating Sheet

Type: **EYGY/EYGN**

“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

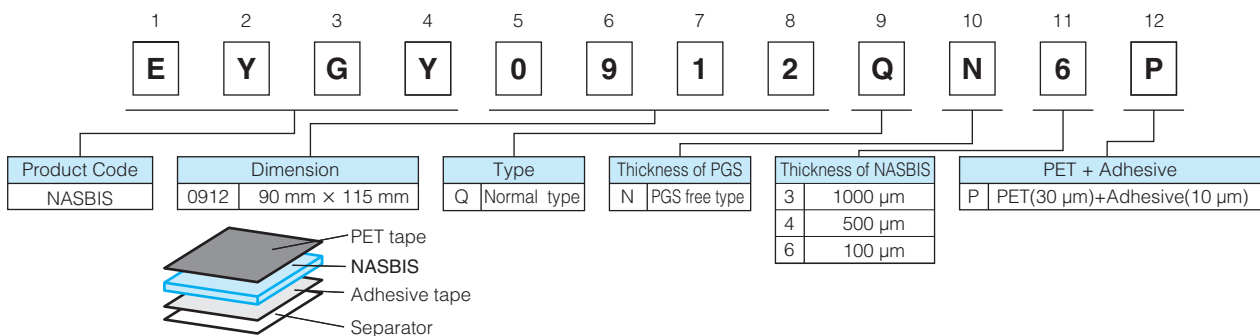
- Low thermal conductivity : 0.020 W/m · K typ.
- Created thin-film sheet ; Thickness : 100 μm to 1000 μm
- Various proposals are available when combined with PGS Graphite sheet
- RoHS compliant

Recommended applications

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

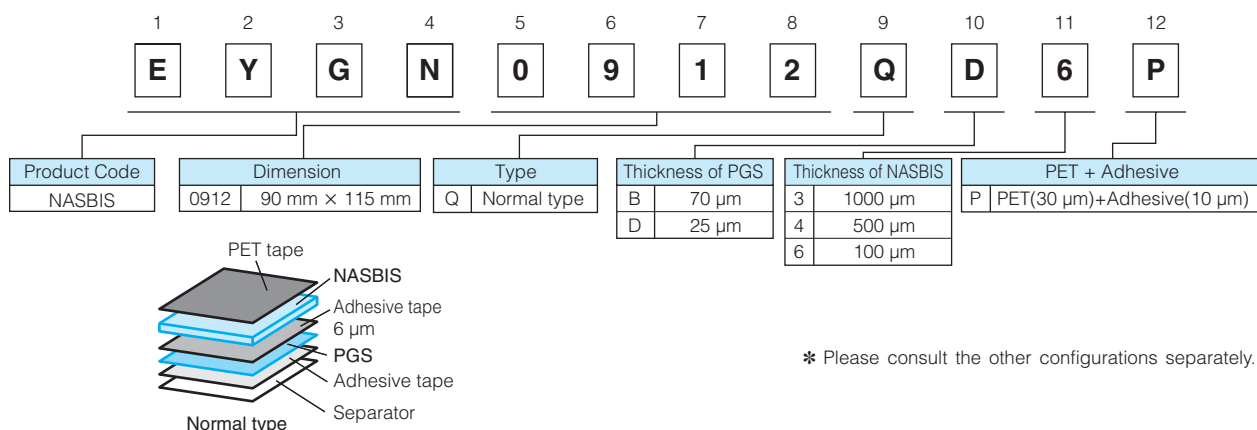
Explanation of Part Numbers

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



* Please consult the other configurations separately.

- NASBIS and PGS Composit Type (EYGN******)



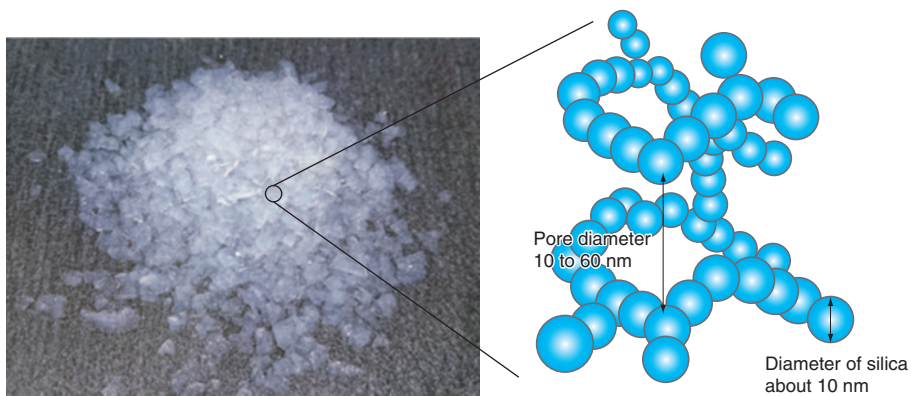
* Please consult the other configurations separately.

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; text-align: center;">PET 30 μm</div> <div style="border: 1px solid black; padding: 2px; text-align: center; background-color: #e0f0ff;">NASBIS*</div> <div style="border: 1px solid black; padding: 2px; text-align: center;">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

● NASBIS and PGS Composit Type

Normal type

Type	N - P type		N - P type	
Structure	<div style="border: 1px solid black; padding: 2px; text-align: center;">PET 30 μm</div> <div style="border: 1px solid black; padding: 2px; text-align: center; background-color: #e0f0ff;">NASBIS*</div> <div style="border: 1px solid black; padding: 2px; text-align: center;">Adhesive 6 μm</div> <div style="border: 1px solid black; padding: 2px; text-align: center; background-color: #e0f0ff;">PGS 70 μm</div> <div style="border: 1px solid black; padding: 2px; text-align: center;">Adhesive 10 μm</div>		<div style="border: 1px solid black; padding: 2px; text-align: center;">PET 30 μm</div> <div style="border: 1px solid black; padding: 2px; text-align: center; background-color: #e0f0ff;">NASBIS*</div> <div style="border: 1px solid black; padding: 2px; text-align: center;">Adhesive 6 μm</div> <div style="border: 1px solid black; padding: 2px; text-align: center; background-color: #e0f0ff;">PGS 25 μm</div> <div style="border: 1px solid black; padding: 2px; text-align: center;">Adhesive 10 μm</div>	
	Heatproof temperature		100 °C	
	100 μm*	Part No.	EYGN0912QB6P	EYGN0912QD6P
		Thickness (μm)	216	171
	500 μm*	Part No.	EYGN0912QB4P	EYGN0912QD4P
Thickness (μm)		616	571	
1000 μm*	Part No.	EYGN0912QB3P	EYGN0912QD3P	
	Thickness (μm)	1116	1071	

* 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.**