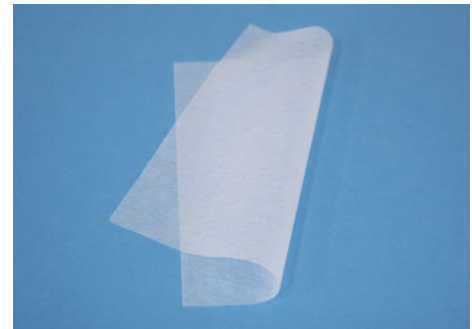


“NASBIS” Insulating Sheet

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

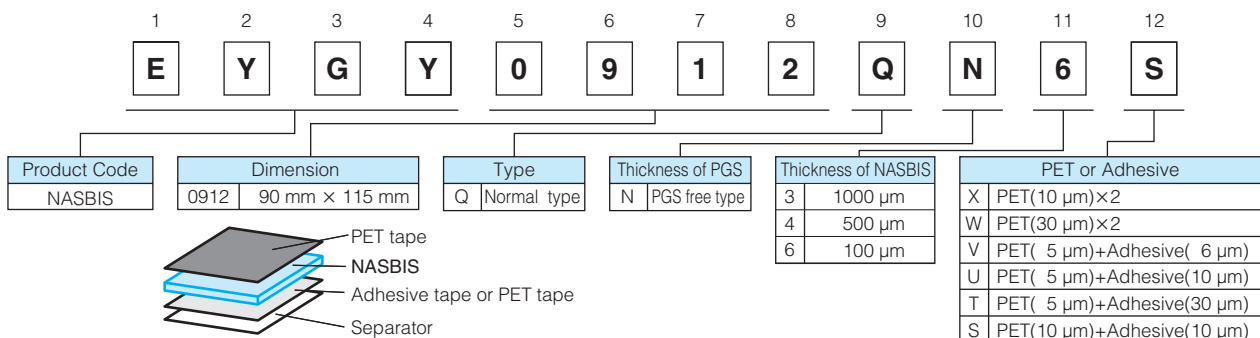
- Low thermal conductivity : 0.020 W/m · K typ.
- Created thin-film sheet ; Thickness : 100 μm to 1000 μm
- Various proposals are available when combined with PGS Graphite sheet
- RoHS compliant

Recommended applications

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

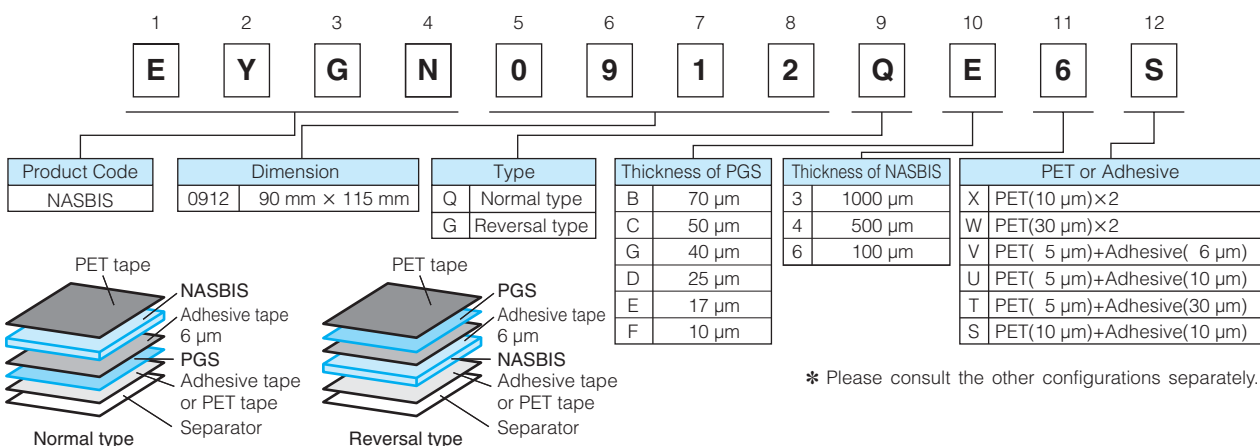
Explanation of Part Numbers

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



* Please consult the other configurations separately.

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

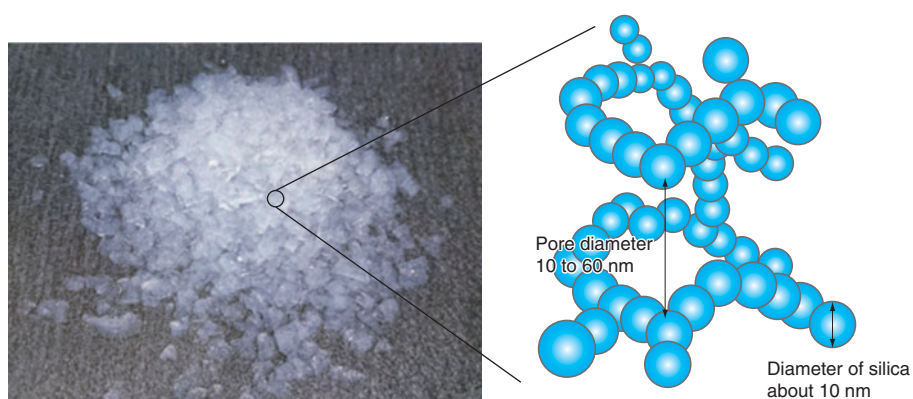


* Please consult the other configurations separately.

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

Appearance of silica aerogel and its nanostructure



Composition example

● NASBIS Pouch Type

Type		Y - X type	Y - W type	Y - T type	Y - S type	
Structure		<div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">PET 10 μm</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px; background-color: #e0f0ff;">NASBIS</div> <div style="border: 1px solid black; padding: 2px;">PET 10 μm</div>	<div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">PET 30 μm</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px; background-color: #e0f0ff;">NASBIS</div> <div style="border: 1px solid black; padding: 2px;">PET 30 μm</div>	<div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">PET 5 μm</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px; background-color: #e0f0ff;">NASBIS</div> <div style="border: 1px solid black; padding: 2px; background-color: #cccccc;">Adhesive 30 μm</div>	<div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">PET 10 μm</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px; background-color: #e0f0ff;">NASBIS</div> <div style="border: 1px solid black; padding: 2px; background-color: #cccccc;">Adhesive 10 μm</div>	
	Heatproof temperature	100 °C	100 °C	100 °C	100 °C	
	100 μm	Standard Part No.	EYGY0912QN6X	EYGY0912QN6W	EYGY0912QN6T	EYGY0912QN6S
		Thickness	120 μm	160 μm	135 μm	120 μm
500 μm	Standard Part No.	EYGY0912QN4X	EYGY0912QN4W	EYGY0912QN4T	EYGY0912QN4S	
	Thickness	520 μm	560 μm	535 μm	520 μm	
1000 μm	Standard Part No.	EYGY0912QN3X	EYGY0912QN3W	EYGY0912QN3T	EYGY0912QN3S	
	Thickness	1020 μm	1060 μm	1035 μm	1020 μm	

● NASBIS and PGS Composit Type

Normal type

Type		N - X type	N - W type	N - T type	N - S type	
Structure		<div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">PET 10 μm</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px; background-color: #e0f0ff;">NASBIS</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px; background-color: #cccccc;">Adhesive 6 μm</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px; background-color: #e0f0ff;">PGS</div> <div style="border: 1px solid black; padding: 2px;">PET 10 μm</div>	<div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">PET 30 μm</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px; background-color: #e0f0ff;">NASBIS</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px; background-color: #cccccc;">Adhesive 6 μm</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px; background-color: #e0f0ff;">PGS</div> <div style="border: 1px solid black; padding: 2px;">PET 30 μm</div>	<div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">PET 5 μm</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px; background-color: #e0f0ff;">NASBIS</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px; background-color: #cccccc;">Adhesive 6 μm</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px; background-color: #e0f0ff;">PGS</div> <div style="border: 1px solid black; padding: 2px; background-color: #cccccc;">Adhesive 30 μm</div>	<div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">PET 10 μm</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px; background-color: #e0f0ff;">NASBIS</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px; background-color: #cccccc;">Adhesive 6 μm</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px; background-color: #e0f0ff;">PGS</div> <div style="border: 1px solid black; padding: 2px; background-color: #cccccc;">Adhesive 10 μm</div>	
	Heatproof temperature	100 °C	100 °C	100 °C	100 °C	
	100 μm	Standard Part No.	EYGN0912Q□6X	EYGN0912Q□6W	EYGN0912Q□6T	EYGN0912Q□6S
	500 μm	Standard Part No.	EYGN0912Q□4X	EYGN0912Q□4W	EYGN0912Q□4T	EYGN0912Q□4S
1000 μm	Standard Part No.	EYGN0912Q□3X	EYGN0912Q□3W	EYGN0912Q□3T	EYGN0912Q□3S	

● NASBIS and PGS Composit Type

Reversal type

Type		N - X type	N - W type	N - T type	N - S type	
Structure		<div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">PET 10 μm</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px; background-color: #e0f0ff;">PGS</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px; background-color: #cccccc;">Adhesive 6 μm</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px; background-color: #e0f0ff;">NASBIS</div> <div style="border: 1px solid black; padding: 2px;">PET 10 μm</div>	<div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">PET 30 μm</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px; background-color: #e0f0ff;">PGS</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px; background-color: #cccccc;">Adhesive 6 μm</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px; background-color: #e0f0ff;">NASBIS</div> <div style="border: 1px solid black; padding: 2px;">PET 30 μm</div>	<div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">PET 5 μm</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px; background-color: #e0f0ff;">PGS</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px; background-color: #cccccc;">Adhesive 6 μm</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px; background-color: #e0f0ff;">NASBIS</div> <div style="border: 1px solid black; padding: 2px; background-color: #cccccc;">Adhesive 30 μm</div>	<div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">PET 10 μm</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px; background-color: #e0f0ff;">PGS</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px; background-color: #cccccc;">Adhesive 6 μm</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px; background-color: #e0f0ff;">NASBIS</div> <div style="border: 1px solid black; padding: 2px; background-color: #cccccc;">Adhesive 10 μm</div>	
	Heatproof temperature	100 °C	100 °C	100 °C	100 °C	
	100 μm	Standard Part No.	EYGN0912G□6X	EYGN0912G□6W	EYGN0912G□6T	EYGN0912G□6S
	500 μm	Standard Part No.	EYGN0912G□4X	EYGN0912G□4W	EYGN0912G□4T	EYGN0912G□4S
1000 μm	Standard Part No.	EYGN0912G□3X	EYGN0912G□3W	EYGN0912G□3T	EYGN0912G□3S	

■ Minimum order 10 pcs.

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