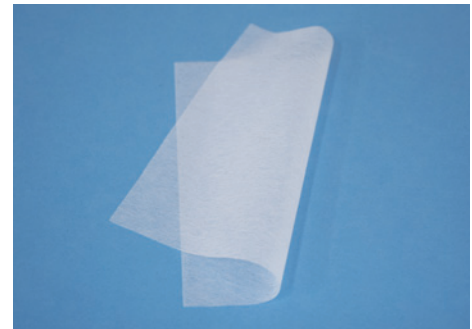


“NASBIS” Insulating Sheet

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

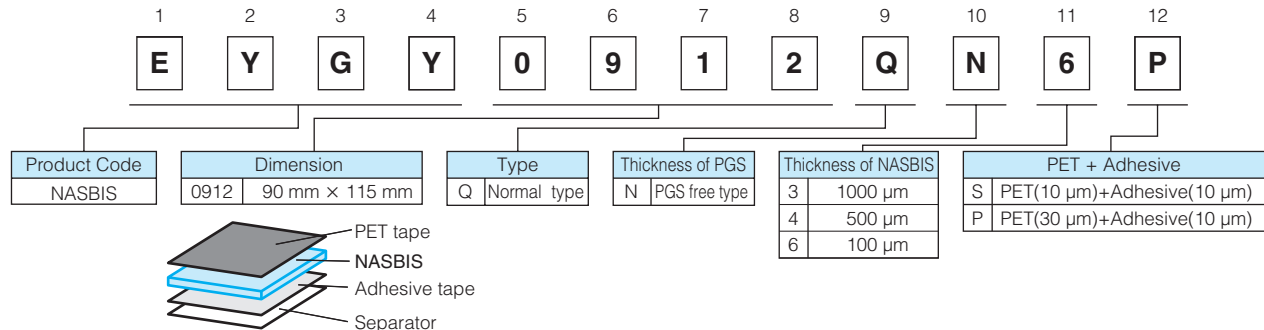
- Low thermal conductivity : 0.020 W/m · K typ.
- Created thin-film sheet ; Thickness : 100 μm to 1000 μm
- Various proposals are available when combined with PGS Graphite sheet
- RoHS compliant

Recommended applications

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

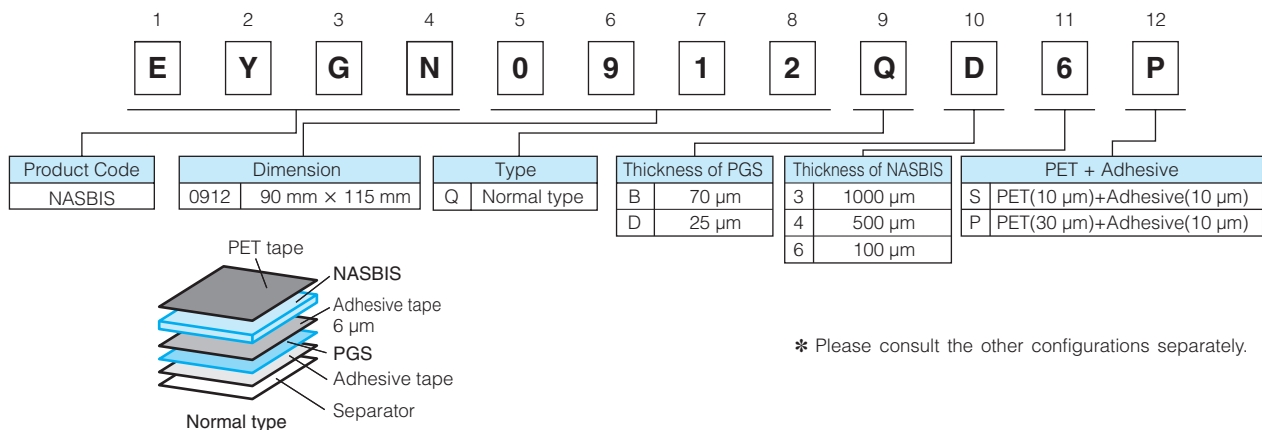
Explanation of Part Numbers

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



* Please consult the other configurations separately.

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



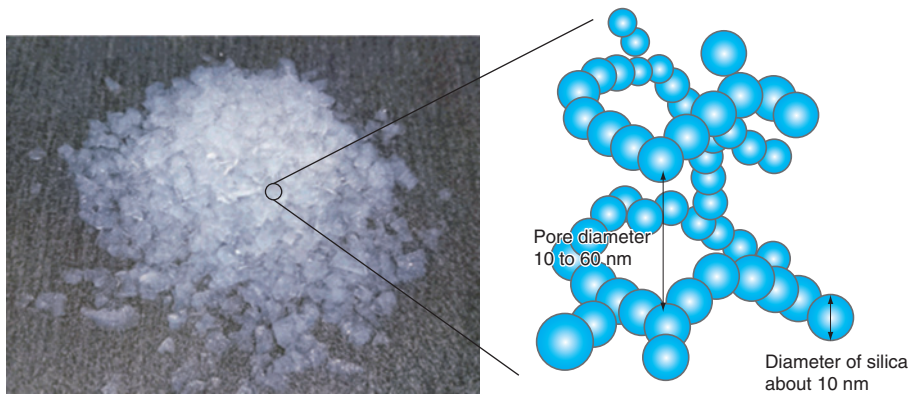
* Please consult the other configurations separately.

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 - S type	Y - P type
Structure		  	  
	Heatproof temperature	100 °C	100 °C
100 μm*	Standard Part No.	EYGY0912QN6S	EYGY0912QN6P
	Thickness (μm)	120	140
500 μm*	Standard Part No.	EYGY0912QN4S	EYGY0912QN4P
	Thickness (μm)	520	540
1000 μm*	Standard Part No.	EYGY0912QN3S	EYGY0912QN3P
	Thickness (μm)	1020	1040

● NASBIS and PGS Composit Type

Normal type

Type		N - S type	N - S type	N - P type	N - P type
Structure		    	    	    	    
	Heatproof temperature	100 °C	100 °C	100 °C	100 °C
100 μm*	Standard Part No.	EYGN0912QB6S	EYGN0912QD6S	EYGN0912QB6P	EYGN0912QD6P
	Thickness (μm)	196	151	216	171
500 μm*	Standard Part No.	EYGN0912QB4S	EYGN0912QD4S	EYGN0912QB4P	EYGN0912QD4P
	Thickness (μm)	596	551	616	571
1000 μm*	Standard Part No.	EYGN0912QB3S	EYGN0912QD3S	EYGN0912QB3P	EYGN0912QD3P
	Thickness (μm)	1096	1051	1116	1071

** Part numbers listed above are all standard samples for evaluation and selection.

Above is not for mass production.

Customized service available for mass production spec.

■ Minimum order 10 pcs.

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