"PGS" Graphite Sheets

Type: **EYG**

PGS (Pyrolytic Graphite Sheet) is a thermal interface material which is very thin, synthetically made, has high thermal conductivity, and is made from a higly oriented graphite polymer film. It is ideal for providing thermal management/heat-sinking in limited spaces or to provide supplemental heat-sinking in addition to conventional means. This material is flexible and can be cut into customizable shapes.

Features

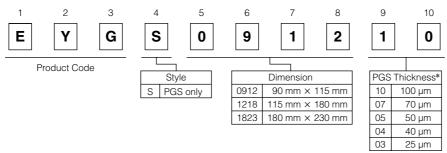
- Excellent thermal conductivity: 700 to 1950 W/(m·K)
 (2 to 5 times as high as copper, 3 to 8 time as high as aluminum)
- Lightweight: Specific gravity: 0.85 to 2.13 g/cm³ (1/4 to 1/10 of copper, 1/1.3 to 1/3 of aluminum in density)
- Flexible and easy to be cut or trimmed. (withstands repeated bending)
- Low thermal resistance
- RoHS compliant

■ Recommended applications

- Smart phones, Mobile phones, DSC, DVC, Tablet PCs, PCs and peripherals, LED Devices
- Semiconductor manufacturing equipment (Sputtering, Dry etching, Steppers)
- Optical communications equipment

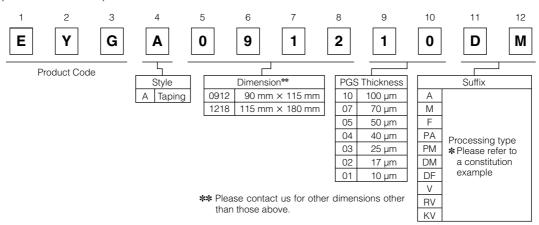
■ Explanation of Part Numbers

● PGS only (EYGS*******)



^{*} PGS thickness 17 μm, 10 μm do not carry out the correspondence in the one piece of article.

■ Taping (EYGA********)



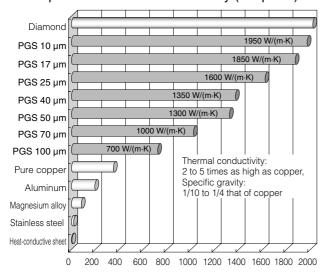
■ Characteristics

Thickness		100 µm	70 µm	50 μm	40 μm
		0.10±0.03 mm	0.07±0.015 mm	0.050±0 .015 mm	0.040±0 .012 mm
Density		0.85 g/cm ³	1.21 g/cm ³	1.70 g/cm ³	1.80 g/cm ³
Thermal conductivity	a-b plane	700 W/(m·K)	1000 W/(m·K)	1300 W/(m·K)	1350 W/(m·K)
Electrical conductivity		10000 S/cm	10000 S/cm	10000 S/cm	10000 S/cm
Extensional strength		20.0 MPa	20.0 MPa	20.0 MPa	25.0 MPa
Expansion coefficient	a-b plane	9.3×10 ⁻⁷ 1/K	9.3×10 ⁻⁷ 1/K	9.3×10 ⁻⁷ 1/K	9.3×10 ⁻⁷ 1/K
Expansion coemicient	c axis	3.2×10 ⁻⁵ 1/K	3.2×10 ⁻⁵ 1/K	3.2×10 ⁻⁵ 1/K	3.2×10⁻⁵ 1/K
Heat resistance*		400 °C			
Bending(angle 180,R5)		10000 cycles			

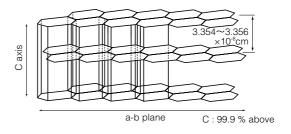
Thickness		25 µm	17 μm	10 µm	
HIICKHESS		0.025±0 .010 mm	0.017±0 .005 mm	0.010±0 .002 mm	
Density		1.90 g/cm ³ 2.10 g/cm ³		2.13 g/cm ³	
Thermal conductivity a-b plane		1600 W/(m·K) 1850 W/(m·		1950 W/(m·K)	
Electrical conductivity		20000 S/cm	20000 S/cm	20000 S/cm	
Extensional strength		30.0 MPa 40.0 MPa		40.0 MPa	
Expansion coefficient	a-b plane	9.3×10 ⁻⁷ 1/K	9.3×10 ⁻⁷ 1/K	9.3×10 ⁻⁷ 1/K	
Expansion coemicient	c axis	3.2×10 ⁻⁵ 1/K	3.2×10 ⁻⁵ 1/K	3.2×10 ⁻⁵ 1/K	
Heat resistance*		400 °C			
Bending(angle 180,R5	5)	10000 cycles			
- T					

^{*} The heat-resistant temperature is a thing of the PGS simple substance performance. (When I do not include processing materials such as the PET tape)

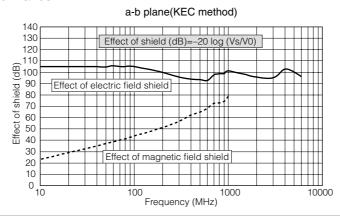
■ Comparison of thermal conductivity (a-b plane)



■ Layered structure of PGS



■ Electric field shield performance



^{**} Values are for reference, not guaranteed.

- Constitution example of the artefact
- Standard series (PGS 100, 70, 50, 40, 25, 17, 10 μm)

Туре		PGS Only	Adhesive Type			
		S type	A-A type	A -M type	A -F type	
Front face		-	-	-	-	
Rear face		_	Insulative adhesion type 30 µm	Insulative thin adhesion type 10 µm	Insulative thin adhesion type 6 µm	
Tiedi lace			,, ,	71 .	7	
		PGS Graphite sheet	PGS Graphite sheet	PGS Graphițe sheet	PGS Graphițe sheet	
Structure				<u> </u>		
			Acrylic Adhesive	Acrylic Adhesive	Acrylic Adhesive	
			tape 30 µm \ Separating paper	tape 10 µm \ Separating paper	tapé 6 µm \ Separating paper	
		· High Thermal Conductivity	·With insulation material	· With insulation material on	· With insulation material on	
		High Flexibility	on one side	one side	one side	
	Features	·Low Thermal Resistance	With strong adhesive	· Low thermal resistance	· Low thermal resistance	
		Available up to 400 °C	tape for putting chassis	comparison with A-A type	comparison with A-A type	
		· Conductive Material	·Withstanding Voltage : 2 kV	·Withstanding Voltage: 1 kV		
	tand temperature	400 °C	100 °C	100 °C	100 °C	
S	tandard Size	115 × 180 mm	90 × 115 mm	90 × 115 mm	90 × 115 mm	
M	laximam size	180 × 230 mm (25 µm to)	115 × 180 mm	115 × 180 mm	115 × 180 mm	
100	Part No.	EYGS121810	EYGA091210A	EYGA091210M	EYGA091210F	
μm	Thickness	100 μm	130 μm	110 μm	106 μm	
70	Part No.	EYGS121807	EYGA091207A	EYGA091207M	EYGA091207F	
μm	Thickness	70 µm	100 µm	80 um	76 μm	
	Part No.	EYGS121805	EYGA091205A	EYGA091205M	EYGA091205F	
50 µm	Thickness					
		50 μm	80 µm	60 µm	56 µm	
40	Part No.	EYGS121804	EYGA091204A	EYGA091204M	EYGA091204F	
μm	Thickness	40 μm	70 μm	50 μm	46 μm	
25	Part No.	EYGS121803	EYGA091203A	EYGA091203M	EYGA091203F	
μm	Thickness	25 μm	55 μm	35 μm	31 μm	
17	Part No.	_	EYGA091202A	EYGA091202M	EYGA091202F	
μm	Thickness	_	47 µm	27 μm	23 µm	
10	Part No.	_	EYGA091201A	EYGA091201M	EYGA091201F	
μm	Thickness	_	40 μm	20 μm	16 μm	
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			·	·	·	
	'	<u> </u>	Laminated type (Ins	ulation & Adhesive)	· · · · · · · · · · · · · · · · · · ·	
	Туре	A-PA type	71 1	ulation & Adhesive) A-DM type	A-DF type	
	Туре	A-PA type Polyester tape standard type 30 um	A-PM type	A-DM type	A-DF type Polyester tape thin type 10 µm	
	Type Front face	Polyester tape standard type 30 μm	A-PM type Polyester tape standard type 30 μm	A-DM type Polyester tape thin type 10 μm	Polyester tape thin type 10 µm	
	Туре	Polyester tape standard type 30 μm Insulative adhesion type 30 μm	A-PM type Polyester tape standard type 30 μm Insulative thin adhesion type 10 μm	A-DM type Polyester tape thin type 10 μm Insulative thin adhesion type 10 μm	Polyester tape thin type 10 μm Insulative thin adhesion type 6 μm	
	Type Front face	Polyester tape standard type 30 μm	A-PM type Polyester tape standard type 30 μm	A-DM type Polyester tape thin type 10 μm	Polyester tape thin type 10 µm	
	Type Front face	Polyester tape standard type 30 µm Insulative adhesion type 30 µm PGS Polyester(PET)	A-PM type Polyester tape standard type 30 µm Insulative thin adhesion type 10 µm PGS Polyector(PET)	A-DM type Polyester tape thin type 10 μm Insulative thin adhesion type 10 μm PGS Polyester(PET)	Polyester tape thin type 10 µm Insulative thin adhesion type 6 µm PGS Polyester(PET)	
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	Type Front face Rear face	Polyester tape standard type 30 µm Insulative adhesion type 30 µm PGS Polyester(PET) Graphite sheet tape 30 µm Acrylic Adhesive	A-PM type Polyester tape standard type 30 µm Insulative thin adhesion type 10 µm PGS Polyester(PET) Graphite sheet tape 30 µm	A-DM type Polyester tape thin type 10 μm Insulative thin adhesion type 10 μm PGS Polyester(PET)	Polyester tape thin type 10 µm Insulative thin adhesion type 6 µm PGS Graphite sheet Polyester(PET) tape 10 µm Acrylic Adhesive	
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Withst S M 100 µm 70 µm 50 µm	Type Front face Rear face Structure Features tand temperature tandard Size laximam size Part No. Thickness Part No. Thickness Part No. Thickness Part No. Thickness	Polyester tape standard type 30 µm Insulative adhesion type 30 µm PGS Polyester(PET) Graphite sheet tape 30 µm Acrylic Adhesive tape 30 µm Separating paper With insulation material on both side Withstanding Voltage PET tape : 4 kV Adhesive Tape : 2 kV 100 °C 90 × 115 mm 115 × 180 mm EYGA091210PA 160 µm EYGA091207PA 130 µm EYGA091205PA 110 µm	A-PM type Polyester tape standard type 30 µm Insulative thin adhesion type 10 µm PGS Graphite sheet tape 30 µm Acrylic Adhesive tape 10 µm Separating paper With insulation material on both side Withstanding Voltage PET tape : 4 kV Adhesive Tape : 1 kV 100 °C 90 × 115 mm 115 × 180 mm EYGA091210PM 140 µm EYGA091207PM 110 µm EYGA091205PM 90 µm	A-DM type Polyester tape thin type 10 µm Insulative thin adhesion type 10 µm PGS Graphite sheet Polyester(PET) tape 10 µm Acrylic Adhesive tape 10 µm Separating paper With insulation material on both side Withstanding Voltage PET tape : 1 kV 100 °C 90 × 115 mm 115 × 180 mm EYGA091210DM 120 µm EYGA091207DM 90 µm EYGA091205DM 70 µm	Polyester tape thin type 10 µm Insulative thin adhesion type 6 µm PGS Graphite sheet Polyester(PET) tape 10 µm Acrylic Adhesive tape 6 µm Separating paper With insulation material on both side Withstanding Voltage PET tape : 1 kV 100 °C 90 × 115 mm 115 × 180 mm EYGA091210DF 116 µm EYGA091207DF 86 µm EYGA091205DF 66 µm	
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Withst S M 100 μm 70 μm 50 μm 40 μm 25 μm	Type Front face Rear face Structure Features tand temperature tandard Size laximam size Part No. Thickness	Polyester tape standard type 30 µm Insulative adhesion type 30 µm PGS Polyester(PET) Graphite sheet tape 30 µm Acrylic Adhesive tape 30 µm Separating paper · With insulation material on both side · Withstanding Voltage PET tape : 4 kV Adhesive Tape : 2 kV 100 °C 90 × 115 mm 115 × 180 mm EYGA091210PA 160 µm EYGA091207PA 130 µm EYGA091205PA 110 µm EYGA091204PA 100 µm EYGA091203PA 85 µm	A-PM type Polyester tape standard type 30 µm Insulative thin adhesion type 10 µm PGS Graphite sheet tape 30 µm Acrylic Adhesive tape 10 µm Separating paper With insulation material on both side Withstanding Voltage PET tape : 4 kV Adhesive Tape : 1 kV 100 °C 90 × 115 mm 115 × 180 mm EYGA091210PM 140 µm EYGA091207PM 110 µm EYGA091205PM 90 µm EYGA091204PM 80 µm EYGA091203PM 65 µm	A-DM type Polyester tape thin type 10 μm Insulative thin adhesion type 10 μm PGS Graphite sheet Polyester(PET) tape 10 μm Acrylic Adhesive tape 10 μm Separating paper With insulation material on both side Withstanding Voltage PET tape : 1 kV Adhesive Tape : 1 kV 100 °C 90 × 115 mm 115 × 180 mm EYGA091210DM 120 μm EYGA091207DM 90 μm EYGA091205DM 70 μm EYGA091204DM 60 μm EYGA091203DM 45 μm	Polyester tape thin type 10 µm Insulative thin adhesion type 6 µm PGS Graphite sheet Polyester(PET) tape 10 µm Acrylic Adhesive tape 6 µm Separating paper With insulation material on both side Withstanding Voltage PET tape : 1 kV 100 °C 90 × 115 mm 115 × 180 mm EYGA091210DF 116 µm EYGA091207DF 86 µm EYGA091205DF 66 µm EYGA091204DF 56 µm EYGA091203DF 41 µm	
Withst S M 100 µm 70 µm 50 µm 40 µm 25 µm 17	Type Front face Rear face Structure Features tand temperature tandard Size laximam size Part No. Thickness	Polyester tape standard type 30 µm Insulative adhesion type 30 µm PGS Polyester(PET) Graphite sheet tape 30 µm Acrylic Adhesive tape 30 µm Separating paper With insulation material on both side Withstanding Voltage PET tape : 4 kV Adhesive Tape : 2 kV 100 °C 90 × 115 mm 115 × 180 mm EYGA091210PA 160 µm EYGA091207PA 130 µm EYGA091205PA 110 µm EYGA091204PA 100 µm EYGA091203PA 85 µm EYGA091202PA	A-PM type Polyester tape standard type 30 µm Insulative thin adhesion type 10 µm PGS Graphite sheet tape 30 µm Acrylic Adhesive tape 10 µm Separating paper With insulation material on both side Withstanding Voltage PET tape : 4 kV Adhesive Tape : 1 kV 100 °C 90 × 115 mm 115 × 180 mm EYGA091210PM 140 µm EYGA09120PM 110 µm EYGA091202PM 80 µm EYGA091203PM 65 µm EYGA091202PM	A-DM type Polyester tape thin type 10 µm Insulative thin adhesion type 10 µm PGS Graphite sheet Polyester(PET) tape 10 µm Acrylic Adhesive tape 10 µm Separating paper With insulation material on both side Withstanding Voltage PET tape : 1 kV Adhesive Tape : 1 kV 100 °C 90 × 115 mm 115 × 180 mm EYGA091210DM 120 µm EYGA091207DM 90 µm EYGA091205DM 70 µm EYGA091203DM 60 µm EYGA091203DM 45 µm EYGA091202DM	Polyester tape thin type 10 µm Insulative thin adhesion type 6 µm PGS Graphite sheet Polyester(PET) tape 10 µm Acrylic Adhesive tape 6 µm Separating paper With insulation material on both side Withstanding Voltage PET tape : 1 kV 100 °C 90 × 115 mm 115 × 180 mm EYGA091210DF 116 µm EYGA091207DF 86 µm EYGA091205DF 66 µm EYGA091204DF 56 µm EYGA091203DF 41 µm EYGA091202DF	
Withst S M 100 μm 70 μm 50 μm 40 μm 25 μm	Type Front face Rear face Structure Features tand temperature tandard Size laximam size Part No. Thickness	Polyester tape standard type 30 µm Insulative adhesion type 30 µm PGS Polyester(PET) Graphite sheet tape 30 µm Acrylic Adhesive tape 30 µm Separating paper · With insulation material on both side · Withstanding Voltage PET tape : 4 kV Adhesive Tape : 2 kV 100 °C 90 × 115 mm 115 × 180 mm EYGA091210PA 160 µm EYGA091210PA 130 µm EYGA091205PA 110 µm EYGA091204PA 100 µm EYGA091204PA 100 µm EYGA091203PA 85 µm EYGA091202PA 77 µm	A-PM type Polyester tape standard type 30 μm Insulative thin adhesion type 10 μm PGS Graphite sheet tape 30 μm Acrylic Adhesive tape 10 μm Separating paper With insulation material on both side Withstanding Voltage PET tape : 4 kV Adhesive Tape : 1 kV 100 °C 90 × 115 mm 115 × 180 mm EYGA091210PM 140 μm EYGA09120PM 110 μm EYGA091202PM 80 μm EYGA091203PM 65 μm EYGA091202PM 57 μm	A-DM type Polyester tape thin type 10 µm Insulative thin adhesion type 10 µm PGS Graphite sheet Polyester(PET) tape 10 µm Acrylic Adhesive tape 10 µm Separating paper With insulation material on both side Withstanding Voltage PET tape : 1 kV Adhesive Tape : 1 kV 100 °C 90 × 115 mm 115 × 180 mm EYGA091210DM 120 µm EYGA091207DM 90 µm EYGA091205DM 70 µm EYGA091204DM 60 µm EYGA091203DM 45 µm EYGA091202DM 37 µm	Polyester tape thin type 10 µm Insulative thin adhesion type 6 µm PGS Graphite sheet Polyester(PET) tape 10 µm Acrylic Adhesive tape 6 µm Separating paper With insulation material on both side Withstanding Voltage PET tape : 1 kV 100 °C 90 × 115 mm 115 × 180 mm EYGA091210DF 116 µm EYGA091207DF 86 µm EYGA091205DF 66 µm EYGA091204DF 56 µm EYGA091203DF 41 µm EYGA091202DF 33 µm	
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^{*} Please contact our engineering section or factory about to special applications.

^{**} Withstanding Voltage are for reference, not guaranteed.

• High heat resistance series (PGS 100, 70, 50, 40, 25, 17, 10 μm)

Туре		high heat resistance type				
		A-V type	A-RV type	A-KV type		
Front face		-	High heat resistance and insulation type 13 µm	High heat resistance and insulation type 30 µm		
Rear face		High heat resistance and insulation adhesion type 18 µm	High heat resistance and insulation adhesion type 18 µm	High heat resistance and insulation adhesion type 18 µm		
Structure		PGS Graphite sheet Heat-resistance Acrylic adhesive tape 18 µm PGS Graphite sheet Separating paper	PGS Graphite sheet Heat-resistance PEEK tape 13 µm Heat-resistance Acrylic adhesive tape 18 µm Heat-resistance Separating paper	PGS Polyimide tape 30 µm Heat-resistance Acrylic adhesive tape 18 µm Polyimide tape 30 µm Separating paper		
Features		With high heat resistance and insulation tape on one side Withstanding Voltage Adhesive tape : 2 kV	· With high heat resistance and insulation tape on both side · Withstanding Voltage PEEK tape : 2 kV Adhesive tape : 2 kV	With high heat resistance and more insulated tape on both side Withstanding Voltage PI tape : 5 kV Adhesive tape : 2 kV		
Withst	and temperature	150 °C	150 °C	150 °C (Polyimide : 180 °C)		
St	tandard Size	90 × 115 mm	90 × 115 mm	90 × 115 mm		
M	aximam size	115 × 180 mm	115 × 180 mm	115 × 180 mm		
100	Part No.	EYGA091210V	EYGA091210RV	EYGA091210KV		
μm	Thickness	118 µm	131 µm	148 µm		
70	Part No.	EYGA091207V	EYGA091207RV	EYGA091207KV		
μm	Thickness	88 µm	101 μm	118 µm		
50	Part No.	EYGA091205V	EYGA091205RV	EYGA091205KV		
μm	Thickness	68 μm	81 μm	98 µm		
40	Part No. EYGA091204V		EYGA091204RV	EYGA091204KV		
μm	Thickness	58 μm	71 µm	88 µm		
25	Part No.	EYGA091203V	EYGA091203RV	EYGA091203KV		
μm	Thickness	43 μm	56 μm	73 μm		
17	Part No.	EYGA091202V	EYGA091202RV	EYGA091202KV		
μm	Thickness	35 μm	48 μm	65 μm		
10	Part No. EYGA091201V		EYGA091201RV	EYGA091201KV		
μm Thickness		28 μm	41 µm	58 μm		

 $[\]boldsymbol{\ast}$ Please contact our engineering section or factory about to special applications.

^{**} Withstanding Voltage are for reference, not guaranteed.

Minimum order

Item	Type	Part No.	Size	Minimum orde
	•	EYGS091210	90×115 mm	20
	S type 100 µm	EYGS121810	115×180 mm	10
		EYGS182310	180×230 mm	10
	•	EYGS091207	90×115 mm	20
	S type 70 µm	EYGS121807	115×180 mm	10
	70 μπ	EYGS182307	180×230 mm	10
	_	EYGS091205	90×115 mm	20
PGS Graphite Sheet Only	S type 50 µm	EYGS121805	115×180 mm	10
Offig	30 μπ	EYGS182305	180×230 mm	10
		EYGS091204	90×115 mm	20
	S type 40 µm	EYGS121804	115×180 mm	10
	40 μπ	EYGS182304	180×230 mm	10
		EYGS091203	90×115 mm	20
	S type 25 µm	EYGS121803	115×180 mm	10
	Δ υ μιτι	EYGS182303	180×230 mm	10
	A-A type	EYGA091207A	90×115 mm	20
	70 µm	EYGA121807A	115×180 mm	10
	A-A type	EYGA091203A	90×115 mm	20
	25 µm	EYGA121803A	115×180 mm	10
	A-A type	EYGA091202A	90×115 mm	20
PGS 70, 25, 17 μm	17 µm	EYGA121802A	115×180 mm	10
Adhesive Type [Standard series]	A-M type	EYGA091207M	90×115 mm	20
[Standard series]	70 µm	EYGA121807M	115×180 mm	10
	A-M type	EYGA091203M	90×115 mm	20
	25 µm	EYGA121803M	115×180 mm	10
	A-M type	EYGA091202M	90×115 mm	20
	17 µm	EYGA121802M	115×180 mm	10
	A-PA type	EYGA091207PA	90×115 mm	20
	70 μm	EYGA121807PA	115×180 mm	10
	A-PA type 25 µm	EYGA091203PA	90×115 mm	20
		EYGA121803PA	115×180 mm	10
	A-PA type 17 μm	EYGA091202PA	90×115 mm	20
		EYGA121802PA	115×180 mm	10
	A-PM type 70 μm	EYGA091207PM	90×115 mm	20
PGS 70, 25, 17 µm		EYGA121807PM	115×180 mm	10
Laminated Type	A-PM type 25 µm	EYGA091203PM	90×115 mm	20
(Insulation & Adhesive)		EYGA121803PM	115×180 mm	10
[Standard series]	A-PM type 17 μm	EYGA091202PM	90×115 mm	20
		EYGA121802PM	115×180 mm	10
	A-DM type 70 μm	EYGA091207DM	90×115 mm	20
		EYGA121807DM	115×180 mm	10
	A-DM type 25 μm	EYGA091203DM	90×115 mm	20
		EYGA121803DM	115×180 mm	10
	A-DM type 17 μm	EYGA091202DM	90×115 mm	20
		EYGA121802DM	115×180 mm	10

^{*} A 180×230mm shape is only S type.

⁽¹⁷ μ m and 10 μ m do not carry out the correspondence in the one piece of article).

^{**} As for the tape processing, the processing that is similar as for PGS 10 µm, 40 µm, the 50 µm type is possible.

^{***} The above-mentioned part number is sample part number for examination.

^{****} Because adjustment is necessary separately, please refer for the demand of the custom product to us.

^{****} Please consult if the quantity of orders is little.

Item	Туре	Part No.	Size	Minimum order
	A-V type 70 µm	EYGA091207V	90×115 mm	20
		EYGA121807V	115×180 mm	10
	A-V type 25 µm	EYGA091203V	90×115 mm	20
		EYGA121803V	115×180 mm	10
	A-V type 17 µm	EYGA091202V	90×115 mm	20
		EYGA121802V	115×180 mm	10
	A-RV type 70 µm	EYGA091207RV	90×115 mm	20
		EYGA121807RV	115×180 mm	10
PGS 70, 25, 17 µm	A-RV type 25 μm	EYGA091203RV	90×115 mm	20
[High heat resistance type]		EYGA121803RV	115×180 mm	10
	A-RV type 17 μm	EYGA091202RV	90×115 mm	20
		EYGA121802RV	115×180 mm	10
	A-KV type 70 μm	EYGA091207KV	90×115 mm	20
		EYGA121807KV	115×180 mm	10
	A-KV type 25 µm	EYGA091203KV	90×115 mm	20
		EYGA121803KV	115×180 mm	10
	A-KV type	EYGA091202KV	90×115 mm	20
	17 µm	EYGA121802KV	115×180 mm	10

^{*} A 180×230mm shape is only S type.

⁽¹⁷ µm and 10 µm do not carry out the correspondence in the one piece of article).

^{**} As for the tape processing, the processing that is similar as for PGS 10 µm, 40 µm, the 50 µm type is possible.

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^{****} Please consult if the quantity of orders is little.

"PGS" (Pyrolytic Graphite Sheet) Heat sink sheet

Handling Precautions

- When using our products, no matter what sort of equipment they might be used for, be sure to make a written agreement on the specifications with us in advance. The design and specifications in this catalog are subject to change without prior notice.
- Do not use the products beyond the specifications described in this catalog.
- This catalog explains the quality and performance of the products as individual components. Before use, check and evaluate their operations when installed in your products.
- 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.
- * Systems equipped with a protection circuit and a protection device
- * Systems equipped with a redundant circuit or other system to prevent an unsafe status in the event of a single fault

PGS (Pyrolytic Graphite Sheet) Heat sink sheet (hereafter referred to as PGS) may result in accidents or trouble when subjected to severe conditions of electrical, environmental and /or mechanical stress beyond the specified "Rating" and specified "Conditions" found in the Specifications. Please follow the recommendations in "Safety Precautions" and "Application Notes". Contact our engineering staff or the factory with any questions.

1. △ Safety Precautions

- 1.1 The PGS shall be used within the specified operating temperature range.
- 1.2 The PGS is soft, do not rub or touch it with rough materials to avoid scratching it.
- 1.3 Lines or folds in the PGS may affect thermal conductivity.
- 1.4 The PGS shall not be used with acid.

The PGS shall not be used in contact with a soldering iron at 400 °C or more

- 1.5 The PGS shall not be exposed to salt water or direct sunlight during use. The PGS shall not be used in corrosive gases (hydrogen sulfide, sulfurous acid, chlorine, ammonia etc.).
- 1.6 Our PGS has been developed for general industry applications. Prior to using the PGS for special applications such as medical, work please contact our engineering staff or the factory.
- 1.7 Never touch a PGS during use because it may be extremely hot.

Application notes

- 2.1 Use protective materials when handling and/or applying the PGS, do not use items with sharp edges as they might tear or puncture the PGS.
- 2.2 The PGS does not work properly if overheated.
- 2.3 Thermal conductivity is dependant on the way it is used.

Test the adaptability of PGS to your application before use.

2.4 The PGS has conductivity.

If required, the PGS should be provided insulation.

2.5 Long term storage

- The PGS shall not be stored under severe conditions of salt water, direct sunlight or corrosive gases (hydrogen sulfide, sulfurous acid, chlorine, ammonia etc.).
- ·The PGS shall not be stored near acid.

<Package markings>

Package markings include the product number, quantity, and country of origin. In principle, the country of origin should be indicated in English.