

"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.

"SSM(Semi-Sealing Material)" is the product which is copounding PGS Graphite sheet and High thermal conductive Elastomer resin. It has a function to absorb heat by resin and release the heat by utilizing high thermal conductivity of PGS Graphite sheet. It also enables taking better attachment to the component which has different height on the electronic board, reducing stress to the electronic board.



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
- Low heat resistance with flexible Graphite sheet (SSM)
- Low elasticity and easy to keep the product's shape after attaching (SSM)
- Siloxane Free(SSM)
- High dielectric voltage: 17 kVac/mm (SSM)
- RoHS compliant

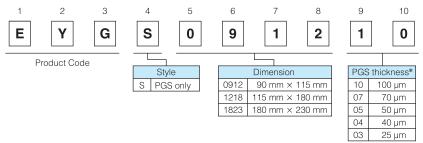
Recommended applications

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



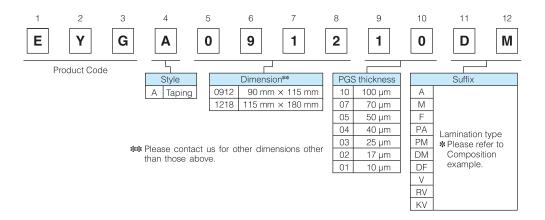
Explanation of Part Numbers

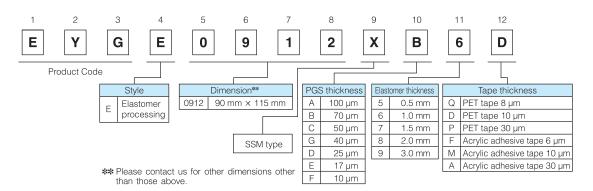
PGS only (EYGS******)



PGS thickness of 17 μm, 10 μm does not support as single item.

■ Taping (EYGA***********)







Characteristics of PGS Graphite Sheets 100 µm 70 um 50 um 40 um Thickness 0.10±0.03 mm 0.07±0.015 mm 0.050±0 .015 mm 0.040±0 .012 mm Density 0.85 g/cm³ 1.21 g/cm³ 1.70 g/cm³ 1.80 g/cm³ 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 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 coefficient 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	25 μm 17 μm 10		
		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·K)	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 coefficient	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)		10000 cycles			

Withstand temperature refers to PGS only. (Lamination material such as PET tape etc. is not included)

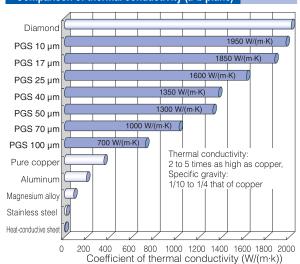
Character	ristics of SS	SM (Elastomer)				
Thickness		1 mm	2 mm	3 mm		
Specific heat		1.4 J/(g·C)				
Density		1.88 g/cm ³				
Thermal co	onductivity	1.6 W/(m⋅K)				
	100 kPa	7.53 (C·cm²)/W	14.82 (C·cm²)/W	19.48 (C·cm²)/W		
Thermal resistance	200 kPa	6.71 (C·cm²)/W	13.17 (C·cm²)/W	16.01 (C·cm ²)/W		
	300 kPa	5.90 (C·cm²)/W	10.73 (C·cm²)/W	11.38 (C·cm ²)/W		
	100 kPa	4.93 %	4.05 %	4.43 %		
Compressibility	200 kPa	9.58 %	8.66 %	14.04 %		
	300 kPa	18.41 %	22.13 %	40.49 %		
Resistivity		> 10×10 ¹⁴ Ω·cm				
Withstanding Voltage		> 17 kVac/mm				
Hardness (Type E)		39				
	SUS	39 mN/cm				
Adhesive force	Aluminum		31 mN/cm			
10106	Glass	38 mN/cm				

^{*} Characteristics refer to Elastomer only.

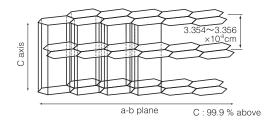
^{**} Values are for reference, not guaranteed.



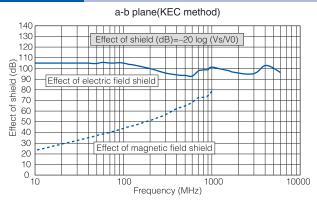
Comparison of thermal conductivity (a-b plane)



Layered structure of PGS



Electric field shield performance





Lamination type/Composition example

• 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
	Structure	PGS Graphite sheet	PGS Graphite sheet Acrylic Adhesive tape 30 µm Separating paper	PGS Graphite sheet Acrylic Adhesive tape 10 µm Separating paper	PGS Graphite sheet Acrylic Adhesive tape 6 µm Separating paper
	Features	· High Thermal Conductivity High Flexibility · Low Thermal Resistance · Available up to 400 °C · Conductive Material	· With insulation material on one side · With strong adhesive tape for putting chassis · Withstanding Voltage: 2 kV	With insulation material on one side Low thermal resistance comparison with A-A type Withstanding Voltage: 1 kV	· With insulation material on one side · Low thermal resistance comparison with A-A type
	tand temperature	400 °C	100 °C	100 °C	100 °C
S	Standard Size	115 × 180 mm	90 × 115 mm	90 × 115 mm	90 × 115 mm
N	Maximam 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 μm	76 μm
50	Part No.	EYGS121805	EYGA091205A	EYGA091205M	EYGA091205F
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
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10	Part No.		EYGA091201A	EYGA091201M	EYGA091201F
μm	Thickness	=	40 μm	20 μm	16 µm
			Laminated type (Ins	ulation & Adhesive)	
	Туре	A-PA type	A-PM type	A-DM type	A-DF type
		Polyester tape standard type 30 µm	Polyester tape standard type 30 µm	Polyester tape thin type 10 µm	Polyester tape thin type 10 µm
	Front face				
	Front face Rear face	Insulative adhesion type 30 um	Insulative thin adhesion type 10 um	Insulative thin adhesion type 10 um	
	Rear face Structure	Insulative adhesion type 30 µm PGS Polyester(PET) Graphite sheet tape 30 µm Acrylic Adhesive tape 30 µm Separating paper	Insulative thin adhesion type 10 µm PGS Graphite sheet tape 30 µm Acrylic Adhesive tape 10 µm Separating paper	Insulative thin adhesion type 10 µm PGS Graphite sheet Polyester(PET) tape 10 µm Acrylic Adhesive tape 10 µm Separating paper	Insulative thin adhesion type 6 µm PGS Graphite sheet Polyester(PET) tape 10 µm Acrylic Adhesive tape 6 µm
	Rear face	PGS Graphite sheet Polyester(PET) tape 30 µm Acrylic Adhesive tape 30 µm	PGS Polyester(PET) tape 30 µm Acrylic Adhesive	PGS Graphite sheet Polyester(PET) tape 10 µm Acrylic Adhesive tape 10 µm	Insulative thin adhesion type 6 µm PGS Graphite sheet Polyester(PET) tape 10 µm Acrylic Adhesive
Withs	Rear face Structure	PGS Polyester(PET) tape 30 µm Acrylic Adhesive tape 30 µm Separating paper With insulation material on both side Withstanding Voltage PET tape: 4 kV	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	PGS Graphite sheet Polyester(PET) Hape 10 µm Acrylic Adhesive tape 10 µm Separating paper With insulation material on both side Withstanding Voltage PET tape : 1 kV	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
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S M 100 μm 70 μm 50 μm 40 μm 25 μm	Features tand temperature standard Size Maximam size Part No. Thickness	PGS Graphite sheet Polyester(PET) 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 EYGA091204PA 100 µm EYGA091203PA 85 µm	PGS Graphite sheet Polyester(PET) 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 80 µm EYGA091203PM 65 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 60 µm EYGA091203DM 45 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
100 pm 70 pm 50 pm 40 pm 25 pm 17	Features tand temperature standard Size fart No. Thickness Part No. Thickness	PGS Graphite sheet Polyester(PET) 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	PGS Graphite sheet Polyester(PET) 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 EYGA091202PM	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 Adhesive Tape: 1 kV 100 °C 90 × 115 mm 115 × 180 mm EYGA091210DM 120 µm EYGA091207DM 90 µm EYGA091205DM 70 µm EYGA091205DM 60 µm EYGA091203DM 45 µm EYGA091202DM	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 EYGA09120DF 116 µm EYGA091207DF 86 µm EYGA091205DF 66 µm EYGA091204DF 56 µm EYGA091203DF
S M 100 μm 70 μm 50 μm 40 μm 25 μm	Features tand temperature standard Size Maximam size Part No. Thickness	PGS Graphite sheet Polyester(PET) 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 EYGA091204PA 100 µm EYGA091203PA 85 µm	PGS Graphite sheet Polyester(PET) 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 80 µm EYGA091203PM 65 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 60 µm EYGA091203DM 45 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

Part No.

Thickness

10

EYGA091201PA

70 µm

EYGA091201PM

50 µm

EYGA091201DM

30 µm

EYGA091201DF

^{*} Please contact us for other lamination type product.
** Withstanding Voltages are for reference, not guaranteed.



Lamination type/Composition example

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

Time		High heat resistance type				
	Туре	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 Separating paper	PGS Graphite sheet Heat-resistance PEEK tape 13 µm Heat-resistance Acrylic adhesive tape 18 µm Separating paper	PGS Polyimide tape 30 µm Heat-resistance Acrylic adhesive tape 18 µm Polyimide tape 30 µm Heat-resistance Separating paper		
- With high heat resistance and insulation tape on one side - Withstanding Voltage Adhesiv : 2 kV		insulation tape on one side ·Withstanding Voltage Adhesive tape	·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		
Withstand temperature		150 °C	150 °C	150 °C (Polyimide : 180 °C)		
St	andard 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		

 $[\]ensuremath{\bigstar}$ Please contact us for other lamination type product.

Standard series (SSM)

	Type E-6 type		E-8 type	E-9 type	
Elast	tomer thickness	1.0 mm	2.0 mm	3.0 mm	
	Structure	PGS PET tape Graphite Sheet 10 µm Acrylic Adhesive tape Elastomer 1.0 mm	PGS PET tape Graphite Sheet 10 µm Acrylic Adhesive tape Elastomer 2.0 mm	PGS PET tape 10 µm Acrylic Adhesive tape Elastomer 3.0 mm	
Features		Soft and low thermal resistance (Elastomer) Low repulsion Withstanding Voltage: 1.7 kV	Soft and low thermal resistance (Elastomer) Low repulsion Withstanding Voltage: 1.7 kV	Soft and low thermal resistance (Elastomer) Low repulsion Withstanding Voltage: 1.7 kV	
Withstand temperature		100 °C	100 °C	100 °C	
St	tandard Size	90 × 115 mm	90 × 115 mm	90 × 115 mm	
70	Part No.	EYGE0912XB6D	EYGE0912XB8D	EYGE0912XB9D	
μm	Thickness	1.09 mm	2.09 mm	3.09 mm	
25	Part No.	EYGE0912XD6D	EYGE0912XD8D	EYGE0912XD9D	
μm	Thickness 1.05 mm		2.05 mm	3.05 mm	

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



Minimum order

Item	Туре	Part No.	Size	Minimum order
	S type 100 µm	EYGS091210	90×115 mm	20
		EYGS121810	115×180 mm	10
		EYGS182310	180×230 mm	10
	0.1	EYGS091207	90×115 mm	20
	S type	EYGS121807	115×180 mm	10
	70 μm	EYGS182307	180×230 mm	10
7000	0.1	EYGS091205	90×115 mm	20
PGS Graphite Sheet Only	S type	EYGS121805	115×180 mm	10
Offity	50 μm	EYGS182305	180×230 mm	10
	0.1	EYGS091204	90×115 mm	20
	S type 40 µm	EYGS121804	115×180 mm	10
	40 μπ	EYGS182304	180×230 mm	10
	0.1	EYGS091203	90×115 mm	20
	S type 25 µm	EYGS121803	115×180 mm	10
	25 μπ	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
[otaridara correct]	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 70 µm	EYGA091207PA	90×115 mm	20
		EYGA121807PA	115×180 mm	10
	A-PA type	EYGA091203PA	90×115 mm	20
	25 µm	EYGA121803PA	115×180 mm	10
	A-PA type 17 µm	EYGA091202PA	90×115 mm	20
		EYGA121802PA	115×180 mm	10
	A-PM type	EYGA091207PM	90×115 mm	20
PGS 70, 25, 17 µm	70 μm	EYGA121807PM	115×180 mm	10
Laminated Type	A-PM type	EYGA091203PM	90×115 mm	20
(Insulation & Adhesive)	25 µm	EYGA121803PM	115×180 mm	10
[Standard series]	A-PM type 17 µm A-DM type	EYGA091202PM	90×115 mm	20
		EYGA121802PM	115×180 mm	10
		EYGA091207DM	90×115 mm	20
	70 μm	EYGA121807DM	115×180 mm	10
	A-DM type 25 µm	EYGA091203DM	90×115 mm	20
		EYGA121803DM	115×180 mm	10
	A-DM type	EYGA091202DM	90×115 mm	20
	17 μm	EYGA121802DM	115×180 mm	10

^{*} Only S type supports 180×230 mm size.

(PGS thickness of 17 µm, 10µm does not support as single item)

* PGS of 10 µm, 40 µm, 50 µm type is also possible to be made as lamination type.

** The above-listed part number is sample part number for testing.

*** Please contact us about your request of custom part number which will be arranged separately.

**** Please contact us if quantity is below Minimum Order Quantity.



Minimum order

Item	Type	Part No.	Size	Minimum order
	A-V type	EYGA091207V	90×115 mm	20
	70 µm	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	EYGA091207RV	90×115 mm	20
	70 µm	EYGA121807RV	115×180 mm	10
PGS 70, 25, 17 µm	A-RV type	EYGA091203RV	90×115 mm	20
[High heat resistance type]	25 µm	EYGA121803RV	115×180 mm	10
	A-RV type	EYGA091202RV	90×115 mm	20
	17 µm	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
	E-9 type Elastomer 3.0 mm, PGS 70 µm	EYGE0912XD9D	90×115 mm	5
	E-9 type Elastomer 3.0 mm, PGS 25 µm	EYGE0912XB9D	90×115 mm	5
SSM Elastomer	E-8 type Elastomer 2.0 mm, PGS 70 µm	EYGE0912XD8D	90×115 mm	5
3.0, 2.0, 1.0 mm PGS 70, 25, 17 μm	E-8 type Elastomer 2.0 mm, PGS 25 µm	EYGE0912XB8D	90×115 mm	5
	E-6 type Elastomer 1.0 mm, PGS 70 µm	EYGE0912XD6D	90×115 mm	5
	E-6 type Elastomer 1.0 mm, PGS 25 µm	EYGE0912XB6D	90×115 mm	5

^{*} Only S type supports 180×230 mm size.

(PGS thickness of 17 μm, 10μm does not support as single item)

** PGS of 10 μm, 40 μm, 50 μm type is also possible to be made as lamination type.

*** The above-listed part number is sample part number for testing.

**** Please contact us about your request of custom part number which will be arranged separately.

***** Please contact us if quantity is below Minimum Order Quantity.



"PGS" (Pyrolytic Graphite Sheet) Heat sink sheet

Handling Precautions

⚠ Safety 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.

∴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.
- 1.8 Since SSM Elastomer resin is soft, please do not preserve the parts adding weight.
- 1.9 Please do not use the parts at the status of hard foreign materials stuck such as metals in SSM Elastomer side.

2. 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.
- Please preserve SSM packed under normal temprerture and humidity while not in use.
- 2.6 Once applying to the adherent which has dents, SSM Elastomer resin keeps its shape so it cannot be re-applied to different portion.

<Package markings>

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