

Product Availability

Sheet Material



Thermaphase, Thermafoil, FSF Sheets

Explanation of Part Numbering System for Sheets

For detailed technical specifications on these products go to menu item "Orcus Products"...

ORCUS inc. produces the widest range of Phase Change materials on the market. Here are our standard sheet products and information on special options you can order.

Part Numbering System for Sheets having substrates (for example Kapton, Aluminum, Mylar, Silver) Example:

S2K5F1/1NZX*304-304

S=Sheet
2= mil thick substrate
K=Kapton
5 = phase change temperature used
F=Type of compound used to coat substrate
1/1 means there is 1 mil of thermal coating on each side of the substrate.
N=No adhesive required
Z=No protective layer needed
X=Thickness of protective layer used
*=Represents the beginning of the size of sheet being used
304-304= The dimension of the sheet in mm

Sheets of Thermaphase 52°C on Kapton

S2K5F1/1NZX*304-304

S=Sheet
2= mil thick substrate
K=Kapton
5 = phase change temperature used
F=Type of compound used to coat substrate
1/1 means there is 1 mil of thermal coating on each side of the substrate.
N=No adhesive required
Z=No protective layer needed
X=Thickness of protective layer used
*=Represents the beginning of the size of sheet being used
304-304= The dimension of the sheet in mm

Description: Thermaphase compound on Kapton Substrate

Standard Compound Thickness: 1 mil

Note: On special order we can make the Thermaphase coating from 0.5mils up to 10 mils thick. We can make the thickness different on each side (for 1 mil thick on one side, 3 mils thick on the other). This is very useful if you have a smooth component on one side of the interface and a rough heat sink on the other side.

Standard Kapton Substrate Thickness: 1 mil, 2 mil, 3 mil

Note: The thicker the Kapton substrate the higher the dielectric strength, but thicker Kapton means higher thermal resistance and higher cost.

Standard Sheet Sizes: 12"x12"

These sheets are available with kiss cut interleave.

Description: The Thermaphase on Kapton has a release liner to which the Thermaphase/Kapton adheres. Parts can be kiss cut on this release liner, the scrap removed. To use the parts, you simply peel them from the release liner.

These sheets are available with fiberized PSA adhesive on one side.

STANDARD sheets of Thermaphase on Kapton

Part no.	Kapton mils	Size of sheet	Coat side 1	Coat side 2
S1K5F1/1NZX*304-304	1 mils	12"x12"	1 mil	1 mil
S2K5F1/1NZX*304-304	2 mils	12"x12"	1 mil	1 mil
S3K5F1/1NZX*304-304	3 mils	12"x12"	1 mil	1 mil

Sheets of Thermaphase Tacky2 71°C on Kapton

S2K7T1/1NZX*304-304

S=Sheet
2= mil thick substrate
K=Kapton
7 = phase change temperature used
T=Type of compound used to coat substrate
1/1 means there is 1 mil of thermal coating on each side of the substrate.
N=No adhesive required
Z=No protective layer needed
X=Thickness of protective layer used
*=Represents the beginning of the size of sheet being used
304-304= The dimension of the sheet in mm.

Description: Thermaphase compound on Kapton Substrate

Standard Compound Thickness: 1 mil

Note: On special order we can make the Thermaphase coating from 0.5 mils up to 10 mils thick. We can make the thickness different on each side (for 1 mil thick on one side, 3 mils thick on the other). This is very useful if you have a smooth component on one side of the interface and a rough heat sink on the other side.

Standard Kapton Substrate Thickness: 1 mil, 2 mil, 3 mil

Note: The thicker the Kapton substrate the higher the dielectric strength, but thicker Kapton means higher thermal resistance and higher cost.

Standard Sheet Sizes: 12"x12"

These sheets are available with kiss cut interleave.

Description: The Thermaphase on Kapton has a release liner to which the Thermaphase/Kapton adheres. Parts can be kiss cut on this release liner, the scrap removed. To use the parts, you simply peel them from the release liner.

STANDARD sheets of Thermaphase on Kapton

Part no.	Kapton mils	Size of sheet	Coat side 1	Coat side 2
S1K7T1/1NZX*304-304	1 mils	12"x12"	1 mil	1 mil
S2K7T1/1NZX*304-304	2 mils	12"x12"	1 mil	1 mil
S3K7T1/1NZX*304-304	3 mils	12"x12"	1 mil	1 mil

Sheets of Thermaphase 98°C on Kapton

S2K9F1/1NZX*304-304

S=Sheet
2= mil thick substrate
K=Kapton
9 = phase change temperature used
F=Type of compound used to coat substrate
1/1 means there is 1 mil of thermal coating on each side of the substrate.

N=No adhesive required
 Z=No protective layer needed
 X=Thickness of protective layer used
 *=Represents the beginning of the size of sheet being used
 304-304= The dimension of the sheet in mm.

Description: Thermaphase compound on Kapton Substrate

Standard Compound Thickness: 1 mil

Note: On special order we can make the Thermaphase coating from 0.5 mils up to 10 mils thick. We can make the thickness different on each side (for 1 mil thick on one side, 3 mils thick on the other). This is very useful if you have a smooth component on one side of the interface and a rough heat sink on the other side.

Standard Kapton Substrate Thickness: 1 mil, 2 mil, 3 mil

Note: The thicker the Kapton substrate the higher the dielectric strength, but thicker Kapton means higher thermal resistance and higher cost.

Standard Sheet Sizes: 12"x12"

These sheets are available with kiss cut interleave.

Description: The Thermaphase on Kapton has a release liner to which the Thermaphase/Kapton adheres. Parts can be kiss cut on this release liner, the scrap removed. To use the parts, you simply peel them from the release liner.

These sheets are available with fiberized PSA adhesive on one side.

STANDARD sheets of Thermaphase on Kapton

Part no.	Kapton mils	Size of sheet	Coat side 1	Coat side 2
S1K9F1/1NZX*304-304	1 mils	12"x12"	1 mil	1 mil
S2K9F1/1NZX*304-304	2 mils	12"x12"	1 mil	1 mil
S3K9F1/1NZX*304-304	3 mils	12"x12"	1 mil	1 mil

Sheets of Thermaphase 52°C on Metal Foil "Thermafoil"

S2A5F.5/.5NZX*304-304

S=Sheet
 2= mil thick substrate
 A=Aluminum foil substrate
 5 = phase change temperature used
 F=Type of compound used to coat substrate
 .5/.5 means there is .5 mil of thermal coating on each side of the substrate.
 N=No adhesive required
 Z=No protective layer needed
 X=Thickness of protective layer used
 *=Represents the beginning of the size of sheet beina used

304-304= The dimension of the sheet in mm.

Description: Thermaphase compound on Aluminum Foil Substrate

Standard Compound Thickness: .5 mil

Note: On special order we can make the thicknesses different on each side. This is very useful if you have a smooth component on one side of the interface and a rough heatsink on the other side.

Standard Aluminum Foil: Type 1100 soft Aluminum 2 mils thick

Standard Sheet Sizes: 12"x12"

These sheets are available with fiberized PSA adhesive on one side.

STANDARD sheets of Thermaphase on Aluminum Foil (Thermafoil)

Part no.	Kapton mils	Size of sheet	Coat side 1	Coat side 2
S2A5F.5/.5NZX*304-304	2 mils	12"x12"	.5 mil	.5 mil

Sheets of Thermaphase Tacky2 71°C on Metal Foil "Thermafoil"

S2A7T.5/.5NZX*304-304

S=Sheet
2= mil thick substrate
A=Aluminum foil substrate
7 = phase change temperature used
T=Type of compound used to coat substrate
.5/.5 means there is .5 mil of thermal coating on each side of the substrate.
N=No adhesive required
Z=No protective layer needed
X=Thickness of protective layer used
*=Represents the beginning of the size of sheet being used
304-304= The dimension of the sheet in mm.

Description: Thermaphase compound on Aluminum Foil Substrate

Standard Compound Thickness: .5 mil

Note: On special order we can make the thicknesses different on each side. This is very useful if you have a smooth component on one side of the interface and a rough heatsink on the other side.

Standard Aluminum Foil: Type 1100 soft Aluminum 2 mils thick

Standard Sheet Sizes: 12"x12"

STANDARD sheets of Thermaphase on Aluminum Foil (Thermafoil)

Part no.	Kapton mils	Size of sheet	Coat side 1	Coat side 2
S2A7T.5/.5NZX*304-304	2 mils	12"x12"	.5 mil	.5 mil

Sheets of Thermaphase 98°C on Metal Foil "Thermafoil"

S2A9F.5/.5NZX*304-304
S=Sheet 2= mil thick substrate A=Aluminum foil substrate 9 = phase change temperature used F=Type of compound used to coat substrate .5/.5 means there is .5 mil of thermal coating on each side of the substrate. N=No adhesive required Z=No protective layer needed X=Thickness of protective layer used *=Represents the beginning of the size of sheet being used 304-304= The dimension of the sheet in mm.

Description: Thermaphase compound on Aluminum Foil Substrate

Standard Compound Thickness: .5 mil

Note: On special order we can make the thicknesses different on each side. This is very useful if you have a smooth component on one side of the interface and a rough heatsink on the other side.

Standard Aluminum Foil: Type 1100 soft Aluminum 2 mils thick

Standard Sheet Sizes: 12"x12"

These sheets are available with fiberized PSA adhesive on one side.

STANDARD sheets of Thermaphase on Aluminum Foil (Thermafoil)

Part no.	Kapton mils	Size of sheet	Coat side 1	Coat side 2
S2A9F.5/.5NZX*304-304	2 mils	12"x12"	.5 mil	.5 mil

Sheets of Free Standing Film 52°C

S5F5FX/XNZX*304-304
S=Sheet 5= mil thick substrate F=Free standing film substrate 5 = phase change temperature used

F=Type of compound used to coat substrate
 X/X= Coating on each side of the substrate.
 N=No adhesive required
 Z=No protective layer needed
 X=Thickness of protective layer used
 *=Represents the beginning of the size of sheet being used
 304-304= The dimension of the sheet in mm.

Description: Thermaphase Free Standing Film

Standard Thickness: 5 mils

Note: On special order we can make the Thermaphase Free Standing Film in different thicknesses contact ORCUS for details.

Standard Sheet Sizes: 12"x12"

These sheets are available with 3 mil polyester release liner on each side.

Description: Thermaphase has a release liner to which the FSF adheres. Parts can be kiss cut on this release liner, the scrap removed. To use the parts, you simply peel them from the release liner.

These sheets are available with fiberized PSA adhesive on one side.

STANDARD sheets of Thermaphase Free Standing Film

Part no.	Kapton mils	Size of sheet	Coat side 1	Coat side 2
S5F5FX/XNZX*304-304	5 mils	12"x12"	0 mil	0 mil

Sheets of Free Standing Film Tacky2 71°C

S5F7TX/XNZX*304-304

S=Sheet
 5= mil thick substrate
 F=Free standing film substrate
 7 = phase change temperature used
 T=Type of compound used to coat substrate
 X/X= Coating on each side of the substrate.
 N=No adhesive required
 Z=No protective layer needed
 X=Thickness of protective layer used
 *=Represents the beginning of the size of sheet being used
 304-304= The dimension of the sheet in mm.

Description: Thermaphase Free Standing Film

Standard Thickness: 5 mils

Note: On special order we can make the Thermaphase Free Standing Film in different thicknesses. [Contact](#)

ORCUS for details.

Standard Sheet Sizes: 12"x12"

These sheets are available with 3 mil polyester release liner on each side.

Description: Thermaphase has a release liner to which the FSF adheres. Parts can be kiss cut on this release liner, the scrap removed. To use the parts, you simply peel them from the release liner.

STANDARD sheets of Thermaphase Free Standing Film

Part no.	Kapton mils	Size of sheet	Coat side 1	Coat side 2
S5F7TX/XNZX*304-304	5 mils	12"x12"	0 mil	0 mil

Sheets of Free Standing Film 98°C

S5F9FX/XNZX*304-304
S=Sheet 5= mil thick substrate F=Free standing film substrate 9 = phase change temperature used F=Type of compound used to coat substrate X/X= Coating on each side of the substrate. N=No adhesive required Z=No protective layer needed X=Thickness of protective layer used *=Represents the beginning of the size of sheet being used 304-304= The dimension of the sheet in mm.

Description: Thermaphase Free Standing Film

Standard Thickness: 5 mils

Note: On special order we can make the Thermaphase Free Standing Film in different thicknesses. [Contact](#) ORCUS for details.

Standard Sheet Sizes: 12"x12"

These sheets are available with 3 mil polyester release liner on each side.

Description: Thermaphase has a release liner to which the FSF adheres. Parts can be kiss cut on this release liner, the scrap removed. To use the parts, you simply peel them from the release liner.

These sheets are available with fiberized PSA adhesive on one side.

STANDARD sheets of Thermaphase Free Standing Film

Part no.	Kapton mils	Size of sheet	Coat side 1	Coat side 2
S5F9FX/XNZX*304-304	5 mils	12"x12"	0 mil	0 mil