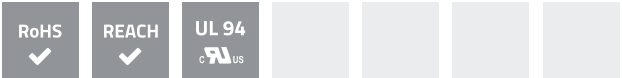
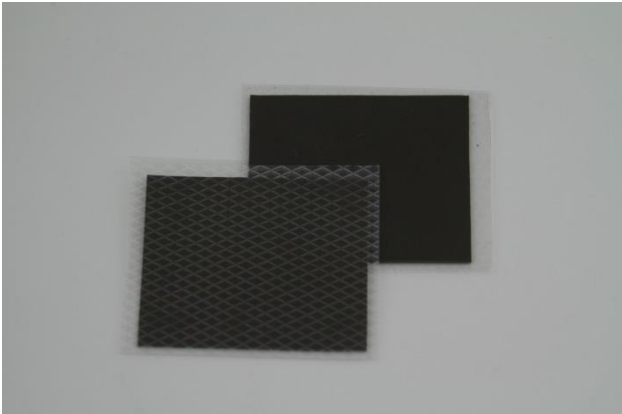


**Thermally conductive insulators** are characterized by a good heat conduction and an excellent dielectric strength. They also possess a good electrical isolation.

Insulators are especially suitable for applications where low mounting pressure is required, e. g. for component clamping.

The smooth and compliant surface of insulators can minimize the thermal resistance and thus maximize the thermal performance.

- Thermal conductivity: 1,2 W/m\*K
- Available in thicknesses from 0,18 to 1,0 mm
- Low thermal resistance
- Good electrical isolating
- Easy to assemble
- Cost effective



PRODUCT SPECIFICATIONS

PROPERTY	VALUE / TOLERANCE	TEST METHOD
Base material	Silicone rubber	-
Thermal conductivity	1,2 W/m*K	ASTM D5470
Thickness range (T)	0,18 – 1,0 mm	ASTM D374
Reinforced carrier	Fiberglass	-
Hardness	70 ± 5 ShoreA	ASTM D2240
Density	>1,6 g/cm <sup>3</sup>	ASTM D297
Dielectric strength	>4 kV/mm	ASTM D149
Tensile strength	17,6 MPa	ASTM D412
Temperature range	-40 to 200 °C	EN 344
Flammability rating	V-0	UL94
Colour	Grey/yellow/pink	Visual

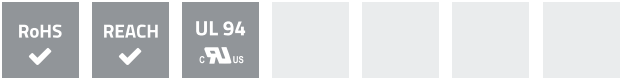
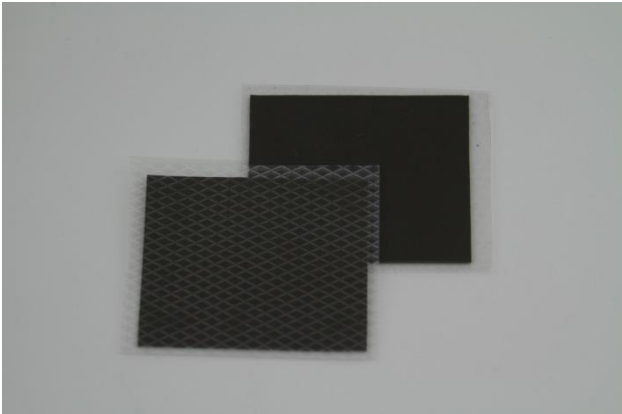
Please note: Picture only shows an example of an insulator.

**Thermally conductive insulators** are characterized by a good heat conduction and an excellent dielectric strength. They also possess a good electrical isolation.

This type of insulator is a silicone based thermal material coated on polyester film.

The smooth and compliant surface of insulators can minimize the thermal resistance and thus maximize the thermal performance.

- Thermal conductivity: 1,3 W/m\*K
- Available in thicknesses: 0,2 mm
- Low thermal resistance
- Good electrical isolating
- Easy to assemble
- Cost effective



PRODUCT SPECIFICATIONS

PROPERTY	VALUE / TOLERANCE	TEST METHOD
Base material	Silicone coating on polyester film	-
Thermal conductivity	1,3 W/m*K	ASTM D5470
Thickness (T)	0,2 mm ± 10%	ASTM D374
Standard sheet size	400x300 mm	-
Hardness	80 ShoreA	ASTM D2240
Temperature range	-40 to 180 °C	-
Breakdown voltage	5.000 V	ASTM D149
Tensile strength	27,6 MPa	ASTM D412
Dielectric strength	>5 kV/mm	-
Volume resistivity	10 <sup>12</sup> Ω*cm	ASTM D257
Density	2,5 g/cm <sup>3</sup>	-
Flammability rating	V-0	UL94

Please note: Picture only shows an example of an insulator.

# INSULATORS

## TCIN-SERIES 1,5 W/m\*K

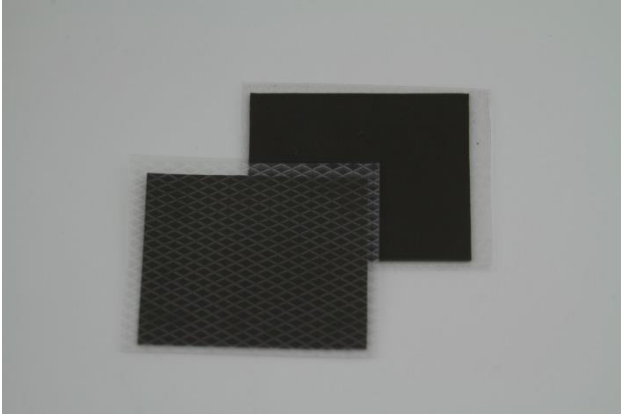


Thermally conductive insulators are characterized by a good heat conduction and an excellent dielectric strength. They also possess a good electrical isolation.

Insulators are especially suitable for applications where low mounting pressure is required, e. g. for component clamping.

The smooth and compliant surface of insulators can minimize the thermal resistance and thus maximize the thermal performance.

- Thermal conductivity: 1,5 W/m\*K
- Available in thicknesses from 0,25 to 0,60 mm
- Low thermal resistance
- Good electrical isolating
- Easy to assemble
- Cost effective



### PRODUCT SPECIFICATIONS

PROPERTY	VALUE / TOLERANCE	TEST METHOD
Base material	Silicone rubber	-
Thermal conductivity	1,5 W/m*K	ASTM D5470
Thickness range (T)	0,25 – 0,60 mm	ASTM D374
Reinforced carrier	Fiberglass	-
Hardness	20 – 60 Shore 00 ± 5	ASTM D2240
Density	>1,6 g/cm <sup>3</sup>	ASTM D297
Dielectric strength	>4 kV/mm	ASTM D149
Tensile strength	17,6 MPa	ASTM D412
Temperature range	-40 to 200 °C	EN 344
Flammability rating	V-0	UL94
Colour	Grey/yellow/pink	Visual

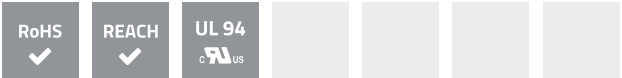
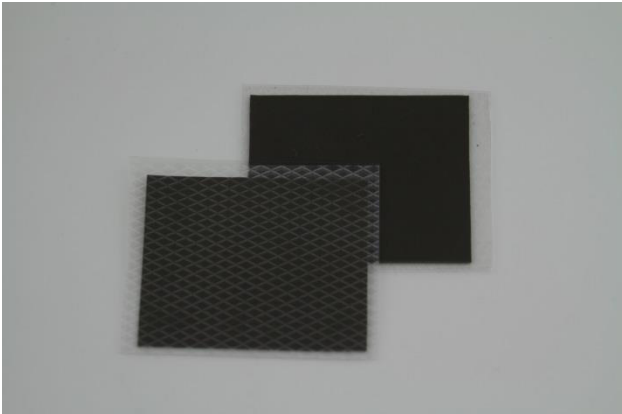
Please note: Picture only shows an example of an insulator.

**Thermally conductive insulators** are characterized by a good heat conduction and an excellent dielectric strength. They also possess a good electrical isolation.

Insulators are especially suitable for applications where low mounting pressure is required, e. g. for component clamping.

The smooth and compliant surface of insulators can minimize the thermal resistance and thus maximize the thermal performance.

- Thermal conductivity: 3,0 W/m\*K
- Available in thicknesses from 0,25 to 0,60 mm
- Low thermal resistance
- Good electrical isolating
- Easy to assemble
- Cost effective



PRODUCT SPECIFICATIONS

PROPERTY	VALUE / TOLERANCE	TEST METHOD
Base material	Silicone rubber	-
Thermal conductivity	3,0 W/m*K	ASTM D5470
Thickness range (T)	0,25 – 0,60 mm	ASTM D374
Reinforced carrier	Fiberglass	-
Hardness	40 – 65 Shore 00 ± 5	ASTM D2240
Density	>1,6 g/cm <sup>3</sup>	ASTM D297
Dielectric strength	>4 kV/mm	ASTM D149
Tensile strength	17,6 MPa	ASTM D412
Temperature range	-40 to 200 °C	EN 344
Flammability rating	V-0	UL94
Colour	Grey/yellow/pink	Visual

Please note: Picture only shows an example of an insulator.

# INSULATORS

## TCIN-SERIES 5,0 W/m\*K

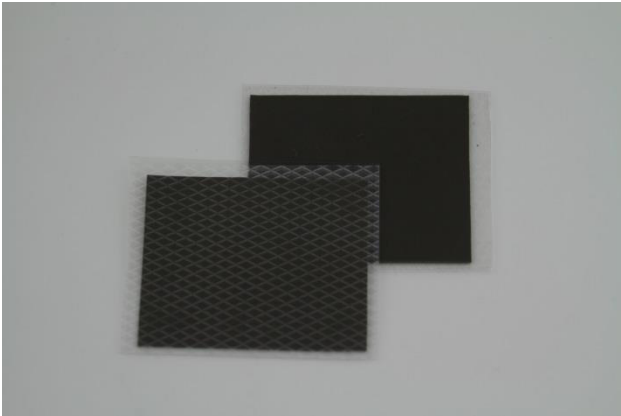


Thermally conductive insulators are characterized by a good heat conduction and an excellent dielectric strength. They also possess a good electrical isolation.

Insulators are especially suitable for applications where low mounting pressure is required, e. g. for component clamping.

The smooth and compliant surface of insulators can minimize the thermal resistance and thus maximize the thermal performance.

- Thermal conductivity: 5,0 W/m\*K
- Available in thicknesses from 0,4 to 10,0 mm
- Low thermal resistance with high voltage isolation
- Good electrical isolating
- Easy to assemble
- Cost effective



### PRODUCT SPECIFICATIONS

PROPERTY	VALUE / TOLERANCE	TEST METHOD
Base material	Filled silicone elastomer	-
Thermal conductivity	5,0 W/m*K	ASTM D5470
Thickness range (T)	0,4 – 10,0 mm ± 10%	ASTM D374
Standard sheet size	400 x 300 mm	-
Reinforced carrier	Fiberglass	-
Hardness	45 Shore 00 ± 10	ASTM D2240
Density	3,1 g/cm <sup>3</sup>	-
Dielectric constant	12,6	ASTM D150
Volume resistivity	10 <sup>13</sup> Ω*cm	ASTM D257
Dielectric strength	>10 kV/mm	ASTM D149
Tensile strength	44 MPa	ASTM D412
Temperature range	-40 – 200 °C	-
Flammability rating	V-0	UL94
Colour	Grey	Visual

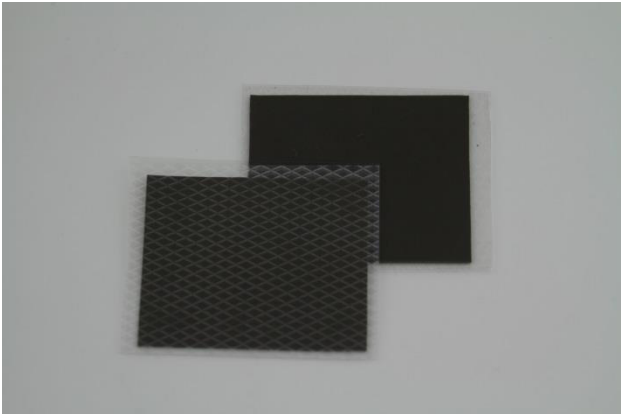
Please note: Picture only shows an example of an insulator.

**Thermally conductive insulators** are characterized by a good heat conduction and an excellent dielectric strength. They also possess a good electrical isolation.

Insulators are especially suitable for applications where low mounting pressure is required, e. g. for component clamping.

The smooth and compliant surface of insulators can minimize the thermal resistance and thus maximize the thermal performance.

- Thermal conductivity: 7,0 W/m\*K
- Available in thicknesses from 0,5 to 5,0 mm
- Low thermal resistance with high voltage isolation
- Good electrical isolating
- Easy to assemble
- Cost effective



**PRODUCT SPECIFICATIONS**

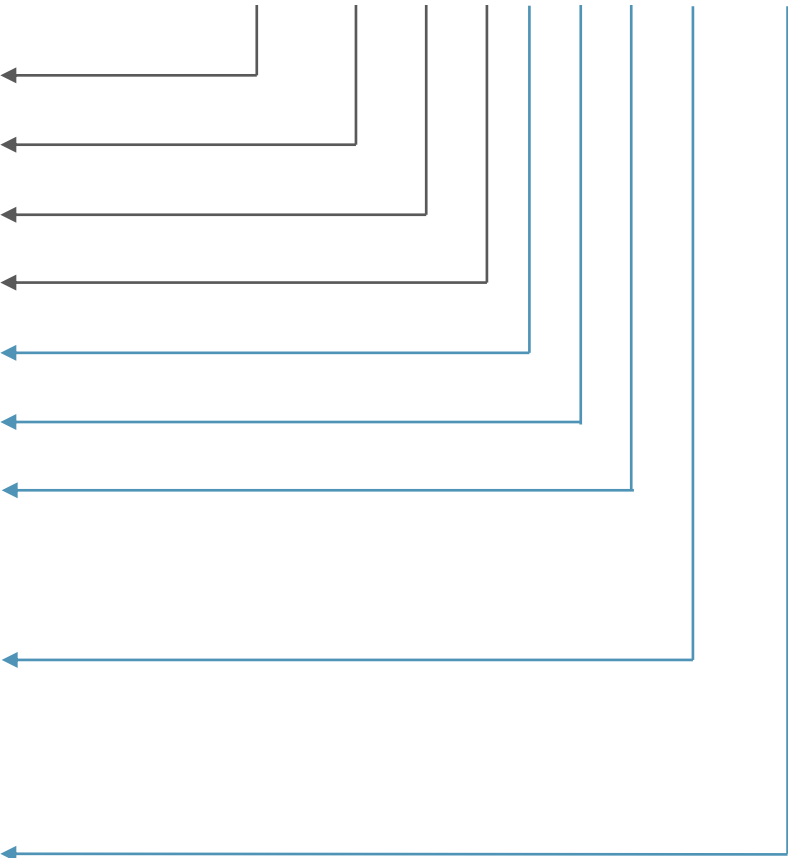
PROPERTY	VALUE / TOLERANCE	TEST METHOD
Base material	Filled silicone elastomer	-
Thermal conductivity	7,0 W/m*K	ASTM D5470
Thickness range (T)	0,5 – 5,0 mm ± 10%	ASTM D374
Standard sheet size	400 x 300 mm	-
Reinforced carrier	Fiberglass	-
Hardness	55 Shore 00 ± 10	ASTM D2240
Density	3,5 g/cm <sup>3</sup>	-
Dielectric constant	12,6	ASTM D150
Volume resistivity	10 <sup>13</sup> Ω*cm	ASTM D257
Breakdown voltage	>5 kV/mm	ASTM D149
Tensile strength	0,22 MPa	ASTM D412
Temperature range	-40 – 200 °C	-
Flammability rating	V-0	UL94
Colour	Grey	Visual

Please note: Picture only shows an example of an insulator.

BUILDING AN ITEM NUMBER

TCIN-7,0 S55 F-LxWxT-XXX-YYY

Thermally Conductive Insulator	
Thermal conductivity	
Shore 00 hardness	
Fiberglass reinforced	
xxx	Length (mm)
xxx	Width (mm)
xxx	Thickness (mm)
BNT	Both sides non-tacky
SAN	One side adhesive, one side non-tacky
BSA	Both sides adhesive
SST	One side tacky, one side non-tacky
DST	Die-cut parts
KCT	Kiss-cut parts



Standard options

EXAMPLE

TCIN-7,0 S55 F-35x17x0,5-SAN-DST

Thermally conductive insulator; thermal conductivity: 7,0 W/m\*K; hardness: 55 Shore 00; fiberglass reinforced; size: 35x17 mm; thickness: 0,5 mm; one side adhesive, one side non-tacky; die-cut