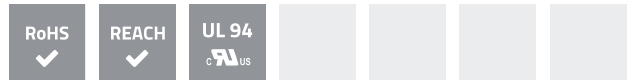


Thermally conductive insulators are characterized by a good heat conduction and an excellent dielectric strength. They also possess a good electrical isolation.

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: 2,0 W/m*K
- Available in 400x300 mm standard sheet size, other dimensions and die-cut parts on request
- Available in thicknesses from 0,15 to 18 mm
- Naturally both side tacky as standard, other options available
- Adhesive tape on request
- Based on silicone filled with ceramic particles



PRODUCT SPECIFICATIONS

PROPERTY	VALUE / TOLERANCE	TEST METHOD
THERMAL		
Thermal conductivity	2,0 W/m*K	ASTM D5470
ELECTRICAL		
Breakdown voltage V/mm	>10 kV	ASTM D149
Dielectric constant	4,9 MHz	ASTM D150
PHYSICAL		
Composition	Silicone elastomer	-
Hardness	20 – 80 Shore 00 ± 5	ASTM D2240
Gravity	2,5g/cm ³	ASTM D792
Thickness range	0,15 – 18 mm	ASTM D374
Reinforcement	Fiberglass	-
Working temperature	-40 – 200 °C	EN 344
Flammability rating	V-0	UL 94 E360243
Volume resistivity	0,298*10 ¹³ ohm-cm	ASTM D257
Tensile strength	28 Psi	ASTM D412
Color	Multi-color	-

BUILDING AN ITEM NUMBER

TCIN-2,0 Sxx #-LxWxT-XXX-YYY-ZZ

Thermally Conductive Insulator

Thermal conductivity

xx	Hardness (Shore 00)
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F	Fiberglass reinforced
X	Not reinforced

xxx	Length (mm)
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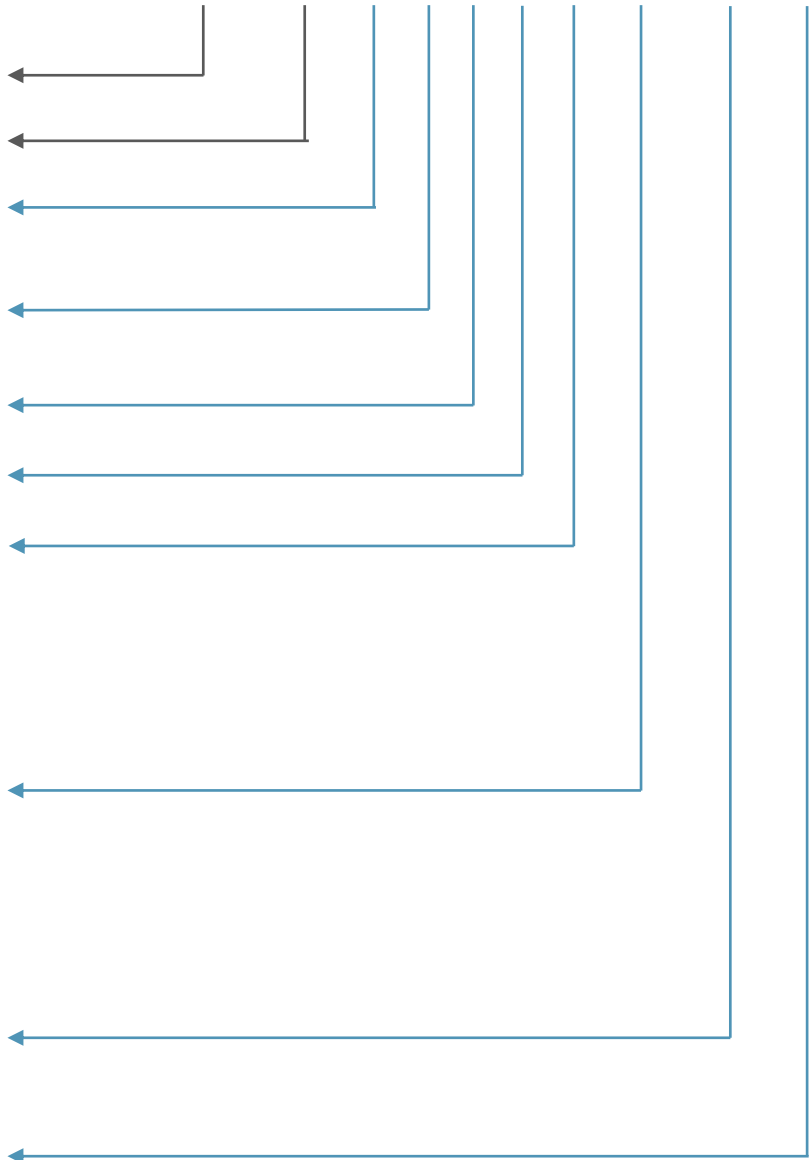
xxx	Width (mm)
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xxx	Thickness (mm)
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BNT	Both sides non-tacky
SAN	One side adhesive, one side non-tacky
SAT	One side adhesive, one side tacky
BSA	Both sides adhesive

DST	Die-cut parts
KCT	Kiss-cut parts

E1	ESD foil (single side)
E2	ESD foil (both sides)



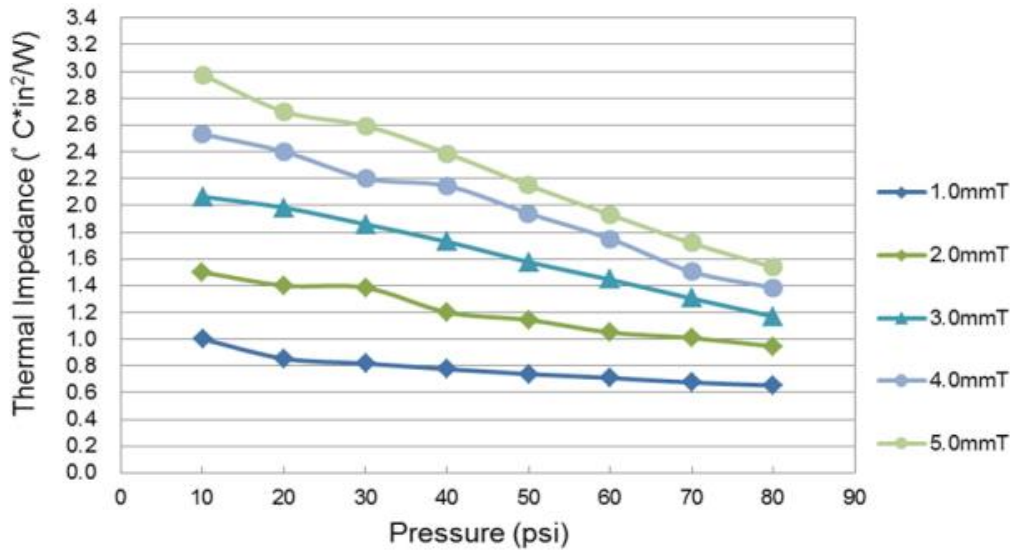
Standard options

EXAMPLE

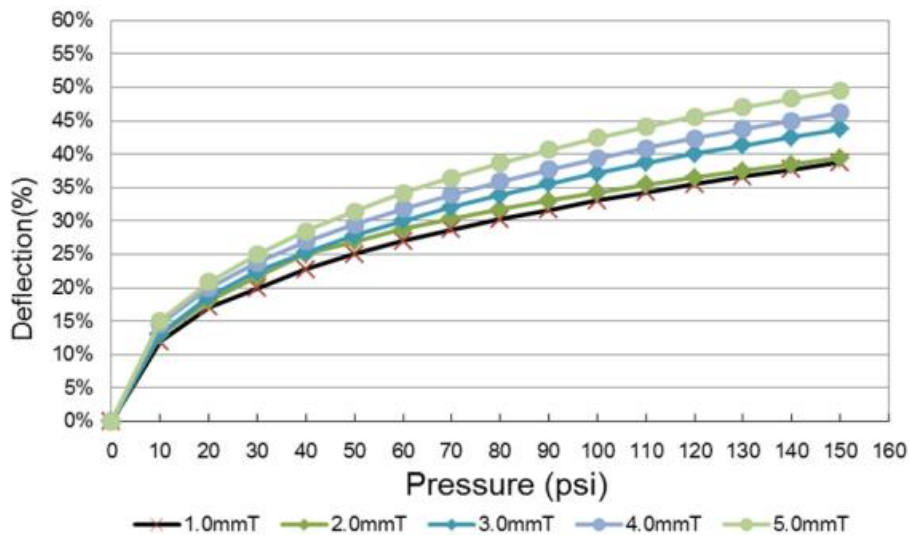
TCIN-2,0S60F-35x17x5-BNT-DST-E1

Thermally conductive insulator; thermal conductivity: 2,0 W/m*K; hardness: 60 Shore 00; fiberglass reinforced; size: 35x17 mm; thickness: 5 mm; both sides non-tacky; die-cut; ESD foil (single side)

THERMAL IMPEDANCE VS. PRESSURE (@40 Shore 00)



DEFLECTION (@40 Shore 00)



TOLERANCES

THICKNESS		WIDTH AND HEIGHT	
0 – 0,50 mm	+/- 0,05 mm	0 – 50 mm	+/- 0,5 mm
0,60 – 1 mm	+/- 10%	> 50 mm	+/- 1,0 mm