

Technical Data Sheet

EverTherm CS series is a composite material which offers extremely high thermal conductivity, low density and good durability. Carbon fiber is an anisotropic and offering a very high level of thermal conductivity in the Z axis. This silica gel sheet is very soft and well compressed, it is used to fill the interface of two substrates, ensuring air from the interface is discharged, and heat conduction dramatically improved. Thermal conductivity @ 45.0W/mK



Material Properties

- High thermal conductivity
- Excellent flame retardant
- Good flexibility and high compression ratio

Adhesive optional:

- A1 equals single-sided adhesive;
- A2 equals double-sided adhesive

Applications

- ✓ Semiconductor heat sink
- ✓ Electric Vehicle (EV) Batteries
- ✓ Communication & power devices & modules
- ✓ LED lighting equipment
- ✓ Electronic components like: LEDs, CPUs, MOS • Mobiles, Laptops, Tablets



EVCSF45

Color	Black	Visual
Thickness*	1.0 - 20.0mm	ASTM D374
Material	Liquid silicone rubber	***
Filler	Carbon fiber, Aluminum oxide	***
Density	3.1g/cm ³	ASTM D792
Thermal Conductivity	45.0W/mK	ASTM D5470
Electrical Strength	0.01KV/mm	ASTM D149
Hardness (Shore 00)*	60-80°	ASTM D2240
Elongation	10%	ASTM D412
Tensile Strength	30psi	ASTM D412
Thermal Resistance (1mm, @30psi)	0.036°C*in ² /W	ASTM D5470
Operating Temp. (°C)	-50 - 160	ASTM D1329
RoHS	PASS	IEC 62321
Halogen	PASS	EN14582
REACH	PASS	EN14372

*Contact sales@crtechinc.com for custom hardness, thickness, or sheet size options

Test fixtures using ASTM D5470. Recorded values include interface thermal resistance. These values are for reference only. The actual application performance is directly related to the applied surface roughness, flatness and pressure.

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Note: The information provided herein is accurate at time of publication. It is the responsibility of the end-user to confirm compliance to their application. All test data is typical. Therefore, these recommendations and data are for reference only and not as a product warranty.