EverTherm™

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 @ 35.0W/M.K

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 devises & modules
- LED lighting equipment
- Electronic components like: LEDs, CPUs, MOS • Mobiles, Laptops, Tablets

EVCSF35

Color	Black	Visual
Thickness	0.50 ~ 20.0mm	ASTM D374
Metal	Silicone rubber	***
Filler	Carbon	***
Density	3.1g/cm3	ASTM D792
Thermal Conductivity	35.0W/m-K	ASTM D5470
Hardness (Shore 00)	40~90	ASTM D2240
Normal Hardness (Shore 00)	40/60±5	ASTM D2240
Elongation	10%	ASTM D412
Tensile Strength	30psi	ASTM D412
Thermal Resistance (1mm,@40psi)	0.045 *in2/W	ASTM D5470
Operating Temperature(℃)	-50~ 160	ASTM D1329
REACH	PASS	EN14372

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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