

Silicone Thermal Fiberglass / XK-F15

Introduction

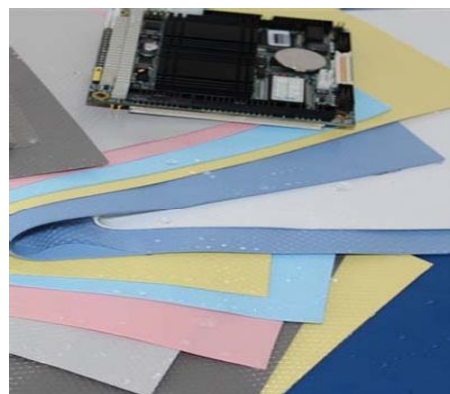
Unlike traditional low thermal conductivity fiberglass with ceramic powder filler, XK-F series is a composite of high performance ceramic filler and 30um thin fiberglass, achieving high thermal conductivity on flat surface with low pressure. Recommended for TO220/TO3P where insulation is needed.

Features

Elastomeric compound coated on both sides
No oil leakage, long term stability
Electrical insulating

Applications

Power supplies
Automotive electronics
Motor controls
Power semiconductors



	unit	XK-F15	Method
Reinforcement Carrier		Fiberglass	visual
Color		Yellow	
Thickness	mm	0.2-0.38	ASTM D374
Specific Gravity	g/cm ³	2.4	ASTM D792
Hardness	Shore A	80	ASTM D2240
Thermal impedance	°Cin ² /W	0.48	ASTM D5470
Thermal Conductivity	W/mK	1.5	HOT DISK
Volume Resistivity	Ωcm	>10 ¹³	ASTM D257
Breakdown Voltage	KV	>3.5	ASTM D149
Dielectric Constant	1	6	ASTM D150
Application temperature	°C	-50~220	
Tensile strength	psi	>300	ASTM D149
Elongation	%	<10	ASTM D149
Siloxane Volatiles D4~D20	%	<0.01	GC-FID
Flammability	UL94	V-0	UL94