



## GLPOLY XK-F50 Thermal Foil

*Thermally Conductive Fiberglass*

Description	Key Features	Typical Applications
Unlike traditional low thermal conductivity fiberglass with ceramic powder filler, XK-F series is a composite of high performance ceramic filler and 30um fiberglass, achieving high thermal conductivity on flatness surface with low pressure. Recommended for TO220/TO3P where insulation is needed.	Thermal conductivity 5.0W/m.K Elastomeric compound coated on both sides No oil leakage, long term stability Electrically insulating	Power supplies Automotive electronics Motor controls Power semiconductors

### Material Properties

	Unit	XK-F50	Method
Reinforcement Carrier		Fiberglass	Visual
Color		White	
Thickness	mm	0.2-0.38	ASTM D374
Specific Gravity	g/cm <sup>3</sup>	2.9	ASTM D792
Hardness	Shore A	88	ASTM D2240
Thermal impedance	°C in <sup>2</sup> /W	0.19	ASTM D5470
Thermal Conductivity	W/mk	5.0	ASTM D5470
Volume Resistivity	Ωcm	>10 <sup>13</sup>	ASTM D257
Breakdown Voltage	KV/mm	>3.5	ASTM D149
Dielectric Constant	1	3	ASTM D150
Application Temperature	°C	-60~220	ASTM G166
Tensile strength	psi	>1000	ASTM D412
Elongation	%	<10	ASTM D412
Siloxane Volatile s D4~D20	%	<0.01	GC-FID
Flammability	UL94	V-0	UL94

## Learn More

For additional information or Material Safety Data Sheets on the complete line of GLPOLY thermal interface management solutions, please call our office

tel: 86-755-27579310, visit [www.glpoly.com](http://www.glpoly.com) or send a message to [kemmy@glpoly.com](mailto:kemmy@glpoly.com).

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