



GLPOLY XK-G50 Thermal Gel

Silicone Thermally Conductive Gel

Description	Key Features	Typical Applications
Syringes packaging, automated production, high temperature, non-corrosive metal, 100% thermal curing putty. XK-G series is a high performance thermal gel, based on silicone, filled with a variety of high-performance ceramic powder. It has high thermal conductivity, low thermal resistance, good insulation and infinite compression characteristics.	Thermal conductivity 5.0W/m.K Especially for UAV design High compressibility Very low thermal resistance Good creep performance Best for north bridge IC	Consumer electronics Automotive Systems Telecommunication Hand-set applications

Material Properties

	Unit	XK-G50	Method
Color		Blue	Visual
Flow Rate (30cc EFD cartridges 0.100"orifice 90psi)	g/min	15-25	
Specific Gravity	g/cm ³	3.3±0.1	ASTM D792
Volume Resistivity	Ωcm	>10 ¹³	ASTM D257
Thermal Conductivity	W/mk	5.0	ASTM D5470
Breakdown Voltage	KV/mm	>10	ASTM D149
Dielectric Constant	1	8	ASTM D150
Low Limit BLT Thickness	mm	0.15	ASTM D374
Application Temperature	°C	-60~200	ASTM G166
Shelf life	month	12	
Siloxane Volatile s D4~D20	%	<0.01	GC-FID
Flammability	UL94	V-0	UL94

Operating Procedures & Recommendation:

1. Options& Tools: automatic dispensing machine or manual feeding gun.
2. Recommended operating pressure for automatic gel-dispensing machine is 90psi .
3. No need maturing time, Instant gel-dispensing Immediately available .
4. The total amount of gel-dispensing is related to the pressure and the diameter of the glue gun.
5. Storage conditions: it can be stored under normal temperature and humidity. It is recommended that customers use the shelf for the best time of 6 months, with a deadline of 12 months.

Packing:

3 Standard Packing Editions as Following:

1st Edition: 55ml each pc of syringe , 7 layers *12 pcs, total 84pcs , standard carton size 41.5*34*34cm

2nd Edition: 100ml each pc of syringe, 5layers *12pcs, total 60pcs , standard carton size 44*34.5 *25.5cm

3rd Edition : 300ml of each pc of syringe ,2layers*8pcs, total 16 pcs , standard carton size 48.8*36.5 *14cm

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 or send a message to kemmy@glpoly.com.

Benefit & Advantage:

- 1.Ultra-low thermal resistance of thermal conductive gel, to optimize the heat dissipation performance of the product.
- 2.Convenience of r&d and design, because thermal conductive gel is paste and permanent adhesive , so in product design, there is no special consideration of product size and tolerance restrictions, can be flexibly designed according to the optimal effect of the design.
- 3.Convenience of purchasing management, thermal conductive gel with syringe packaging, one model can realize the needs of a variety of parts, a variety of products, greatly simplified the procurement management and storage management.
- 4.The thermal conductive gel process is automatic, syringe packaging, automatic dispensing process can be used, greatly improved the operating efficiency, reduced the labor cost and time cost, Meanwhile,optimized the stability of the product.
5. The material itself contains no solvent (environmental protection), no need to cure (fast), is the most advanced thermal conductive material, suitable for robot automatic assembly line.

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