



GLPOLY XK-S12 Two-Component Thermal Gap filler

Two-component Silicone Thermally Conductive Gel

Description	Key Features	Typical Applications
<p>XK-S12 two-component thermal gap filler cures at room temperature or elevated heat, thixotropic featuring high performance and superior softness. It deflects at low compressive forces and accommodates a variety of different gap thickness. It is a perfect solution for fragile components with high topography or tolerances. It is compatible with automated dispense processes and in place of thermal gap pad.</p>	<p>Thermal conductivity 1.2W/m.K Fast cured by heating Conforming, ideal for delicate component and low stress applications Cure at room or elevated temperature 100% solid, no cure by-product</p>	<p>Computer & peripherals Automotive electronics Telecommunication Anti-shock Between any heat-generating semiconductor and a heat sink</p>

Material Properties

	XK-S12	METHOD	Unit
Color / Part A	White	Visual	
Color / Part B	Yellow	Visual	
Features	Soft GEL		
Density	1.9±0.1	ASTM D792	g/cm ³
Before-Cured Property			
A:B	1:1		
Mixed Viscosity @ 25°C	250±10	ASTM D2196	Pa.s
Shelf Life @ 25°C	6 months		
After Cured Property			
Color	yellow	Visual	
Cure Schedule 1	6hr/25°C	ASTM D4473 10%/90% hardness measurement	hours
Cure Schedule 2	40min/80°C	ASTM D4473 10%/90% hardness measurement	min
Cure Schedule 3	10min/100°C	ASTM D4473 10%/90% hardness measurement	min
Working time	120 min/25°C	ASTM D4473 10%/90% hardness measurement	min
Hardness	Shore 00 60±5	ASTM D2240	Shore 00
Tensile Strength.	0.3±0.1	ASTM D412	Mpa

Elongation	>50	ASTM D412	%
Service Temp	-60~200	ASTM G 166	°C
Siloxane Volatile s D4~D20	<0.01	GC-FID	%
Electrical Property			
Dielectric strength	>10	ASTM D149	KV/mm
Volume resistivity	>10 ¹³	ASTM D257	Ohm-cm
Dielectric Constant	7	ASTM D150	(1KHz)
Flame Rating	V-0	UL94	
Thermal Property			
Thermal Conductivity	1.2	ASTM D5470	W/m*K
Heat Capacity	1	ASTM E1269	J/g-K



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Operating Procedures & Recommendation:

1. The ratio of AB is 1:1, and the two doses of AB glue should be mixed evenly.
2. Option& Tools: automatic dispensing machine or manual feeding gun.
3. The curing time is related to the amount of dispensing thickness of finished product. Take 1mm thickness as an example:

Storage Method

1. Storage mode: it can be stored for 6 months at room temperature below 25 degrees before mixed.
2. The AB component should be used up once after mixing, and it cannot be kept for further use

Curing temperature °C	Curing time
25	6-24 hr
50	60~120min
80	40~60min
100	10~20min
150	1~3 min

Caution:

Contact Surface:

If the contact surface meet with sulfur, phosphorus, nitrogen and organic metal salt and other substances, it will prevent the hardening of the surface, slightly it may resist to the hardening of the surface and contact surface, seriously it may cause no hardening permanently and completely.

Environment Aspects:

In addition to the requirements of the correct mixing ratio, While in the use of mixing containers ,such as paper cups, plastic cups ,because of inner wall of the container contain oil wax, penetration of plasticizers inside plastic , baking epoxy resin and varnish inside the oven, it will be contaminated Therefore, please clean and dry the machine before use, especially to avoid the possibility of contact with the above substances, please do the test first.

Packing:

4 Standard Packing Editions as Following:

1st Edition: 25+25ml AB component , 6 layers *10 pcs, total 60pcs , standard carton size 37.2*30.8*22.5cm

2nd Edition: 200+200ml AB component , 2layers *6pcs, total 12pcs , standard carton size 51.5*38.5*13.5Ccm

3rd Edition : 20L+20L Bucket packing

4th Edition : 200L +200L Bucket packing



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

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