



GLPOLY XK-S40 Two-Component Thermal Gap filler

Two-component Silicone Thermally Conductive Gel

| Description | Key Features | Typical Applications |
|--|---|---|
| <p>XK-S40 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 4.0W/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-S40 | METHOD | Unit |
|------------------------------|---------------|---|----------|
| Color / Part A | White | Visual | |
| Color / Part B | Blue | Visual | |
| Features | Soft GEL | | |
| Density | 3.1±0.1 | ASTM D792 | g/cm3 |
| Before-Cured Property | | | |
| A:B | 1:1 | | |
| Mixed Viscosity @ 25°C | <450 | ASTM D2196 | Pa.s |
| Shelf Life @ 25°C | 6 months | | |
| After Cured Property | | | |
| Color | Blue | 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. | 0.2±0.05 | ASTM D412 | Mpa |

| | | | |
|-----------------------------------|-------------------|------------|--------|
| Elongation | >30 | 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 | 8 | ASTM D150 | (1KHz) |
| Flame Rating | V-0 | UL94 | |
| Thermal Property | | | |
| Thermal Conductivity | 4.0 | ASTM D5470 | W/m*K |
| Heat Capacity | 1 | ASTM E1269 | J/g-K |



*Email: kemmy@glpoly.com Tel: 86-755-27579310 Fax: 86-755-27579350
For the most direct access to technical support visit: www.glpoly.com*

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 1.0mm thickness as an example:

| 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.

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

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

tel: 86-755-27579310, visit www.glpoly.com or send a message to kemmy@glpoly.com.

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*Email: kemmy@glpoly.com Tel: 86-755-27579310 Fax: 86-755-27579350
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