

Thermal Grease TG2120

High Thermally Conductive Interface Filling Compound

Typical Properties			
Property	Unit	Value	Test Method
Color / Component		White One part	Visual
Density (as mixed)	Gram /cc	2.9	ASTM D792
Viscosity at 25°C	Pa.s	180	ASTM D2196
Thermal Conductivity	W/m-K	2.1	ASTM D5470
Dielectric Constant	@1000Hz	4.5	ASTM D150
Dielectric Strength	Volt/mil AC	> 500	ASTM D149
Volume Resistivity	Ohm-cm	> 10E+14	ASTM D257
Temperature Usage	°C	-80 to 200	TGA
Self life @ 25 °C	month	24	Viscosity

These figures are only intended as a guide and should not be used in preparing specifications.

Characteristics

TG2120 is a very high thermally conductive interface gap filling material. It is a high purity, flowable silicone thermal grease with excellent thermal conductivity. The compound provides very low thermal stress for thermal cycles. TG2120 is both dispensable and printable.

Special Features and Benefits

- Very high thermal conductivity
- High purity for electrical insulation
- No cure required
- Almost constant properties from -70 to 180 °C
- Zero stress
- Low bleeding, low volatile
- Pre-added 7 mil glass bead for thickness control

Typical Applications

- Automotive electronics
- Semiconductor and Telecommunications
- Between high heat power device and heat sink
- Couple thermal stress while dissipating heat

TG2120 has a shelf life of at least 24 months when stored between 5 °C and 30 °C in the originally sealed container. It is not for structure bonding purpose. For bonding thermally conductive adhesive, please select the United Adhesives' ThermoBond products.

Processing Instruction

For the package of TG2120 in a container (not in a cartridge), to ensure homogeneity of the material, the components must be stirred thoroughly before they are removed or processed in order to uniformly disperse any fillers that might have settled during storage.

We recommend running preliminary tests to optimize conditions for the particular application. Comprehensive processing instructions can be obtained by contacting directly to United Adhesives Inc.

Storage

TG2120 has a shelf life of at least 24 months when stored between 5 °C and 30 °C in the originally sealed container. The 'Best use before end' date of each batch appears on the product label. Storage beyond the date specified on the label does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.

Safety information

TG2120 silicone thermal grease contains neither toxic nor corrosive substances that might require special handling precautions. General hygiene regulations should be observed. Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from United Adhesives Inc.

The figures listed in this datasheet are in good faith with the present state of our knowledge, but should not be used in substitution for user's tests. We reserve the right to alter product constants within the scope of technical progress or new developments. The suggestions for use in this sheet should be checked by preliminary trials because the user's processing conditions are out of our control. The suggestions for use should not be in substitution of user from the obligation of investigating the possibility of infringement of third parties' patents or rights. This datasheet does not constitute a warranty, either express or implied, of the fitness or suitability of the products for a particular purpose. For technical, quality, or product safety questions, please contact directly to United Adhesives Inc.