

Silductor 6200

Electrically Conductive Silicone Adhesive

Typical Properties			
Property	Unit	Value	Test Method
Color / Component		Silver	Visual
Viscosity at 25°C	Pa.s	56	ASTM D2196
Thixotropic Index		3	ASTM D2196
Density (as mixed)	Gram /cc	4.9	ASTM D792
Weight loss in cure	Weight %	< 0.2%	TGA
Property as Cured			
Color		Light Yellow	Visual
Hardness	Shore A	47	ASTM D2240
Tensile Strength	MPa	3.0	ASTM D638
Elongation	%	160	ASTM D638
Volume Resistivity	Ohm-cm	$< 5 \times 10^{-4}$	ASTM D257
Coefficient of Thermal Expansion	ppm/C	< 160	IPC-TM-650
Thermal Conductivity	W/m-K	> 3.5	ASTM D5470
Adhesion (Al/Al lap shear)	Psi	> 150	ASTM D1002
Tg	°C	-120	DMA
Temperature Usage	°C	- 50 to 230	TGA
Cure Profile			
Cure at 125 °C	Min	60	DSC
Cure at 150 °C	Min	30	DSC
Pot / Work Life at 25°C	Hr	> 72	Viscosity double
Shelf Life @ -15°C	Month	6	ITM

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

Processing Instruction

Important! Silductor 6200 is platinum cure system. Please keep applied surface clean and avoid using this material on any surface that contains sulfur, amine, phosphorous, organo-metals, acid, etc., because these contaminants could inhibit the cure of the material.

For the package 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

Silductor 6200 has a shelf life of at least 6 months when stored below - 15 °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

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.

Characteristics

Silductor 6200 is an electrically conductive silicone adhesive for electronic applications. After cure at elevated temperature, it forms a flexible, rubbery compound with strong bonding to various substrates. It is used for compliant grounding, conducting, EMI shielding in semiconductor and electronics devices for its excellent electrical and thermal conductivity. Silductor 6200 is both dispensable and printable.

Special Features and Benefits

- Good electrical conductivity
- Strong bonding to many substrates
- High thermal conductivity
- High temperature stability
- Flexible and reworkable
- Low bleeding, low volatile
- Low ionic content

Typical Applications

- Aerospace electronics
- Automotive electronics
- Semiconductor and Telecommunications
- Conducting while dissipating heat
- Grounding of power devices
- EMI shielding
- Thermally conductive bonding

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The data presented in this leaflet are in accordance with the present state of our knowledge, but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this leaflet should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. The recommendations do not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, clarifying the position. Recommendations for use do 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.