

R-2930

Thermally conductive silicone

DESCRIPTION

- Two-part, white, thermally conductive silicone
- Cure may be heat accelerated
- 15:1 Mix Ratio (Part A: Part B)

APPLICATION

- To provide heat transfer between electrical/electronic components and their heat sinks
- Use to adhere integrated circuit substrates, base plates, heat sinks or where grooves or other configurations require a nonflowable to limited flow material

PROPERTIES

| Typical Properties | Average Result | Metric Conv. | Standard | NT-TM |
|---------------------------------|----------------|-------------------------------------|-----------------|-------|
| Uncured: | | | | |
| Chemical Classification | VMQ | - | - | - |
| Color | White | - | - | |
| Consistency | Paste | - | - | |
| Work Time at 25°C (77°F) | 3 hours | - | - | 008 |
| Cured: 30 min at 150°C (302°F) | | | | |
| Operating Temperature Range | -85 to 465°F | −65 to 240°C | - | |
| Specific Gravity at 25°C (77°F) | 1.55 | - | ASTM D792 | 003 |
| Durometer, Type A | 80 | - | ASTM D2240 | 006 |
| Tensile Strength | 260 psi | 1.72 Mpa | ASTM D412, D882 | 007 |
| Elongation | 20 % | - | ASTM D412, D882 | 007 |
| Thermal Conductivity | 1.46 W/mk | 35 x 10 ⁻⁴ cal/cm-sec-°C | ASTM C177 | 101 |
| Dielectric Strength | 880 Volts/mil | 34.6 kV/mm | ASTM D149 | - |



INSTRUCTIONS FOR USE

Mixing

Stir Part A well prior to weighing for mixing to ensure the filler is homogeneous throughout. Thoroughly mix in a ratio of 15:1 Part A to Part B.

Vacuum Deaeration

Remove air entrapped during mixing by common vacuum deaeration procedure, observing all applicable safety precautions. Slowly apply vacuum to a container rated for use and of volume at least four times that of material being deaerated. Hold vacuum until presence of air is no longer evident.

Substrate Consideration

R-2930 will cure in contact with most materials. Exceptions include butyl and chlorinated rubbers, some RTV silicones and unreacted residues of some curing agents.

Note: Some bonding applications may require the use of a primer. NuSil Technology CF1-135 silicone primer is recommended.

Adjustable Cure Schedule

Product cures at room temperature and a wide range of cure times and temperatures to accommodate different production needs. Contact NuSil Technology for details.

WARRANTY INFORMATION

The warranty period provided by NuSil Technology LLC (hereinafter "NuSil Technology") is 12 months from the date of shipment when stored below 40°C in original unopened containers. Unless NuSil Technology provides a specific written warranty of fitness for a particular use, NuSil Technology's sole warranty is that the product will meet NuSil Technology's then current specification. NuSil Technology specifically disclaims all other expressed or implied warranties, including, but not limited to, warranties of merchantability and fitness for use. The exclusive remedy and NuSil Technology's sole liability for breach of warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted. NuSil Technology expressly disclaims any liability for incidental or consequential damages.

Packaging

100 Gram Kit 250 Gram Kit 500 Gram Kit Warranty

12 Months

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