

IQ-GREASE 9302

Silicon-Free Thermal Grease

One Component, High Viscosity, Non-Sagging, Thermal Interface Material

Product Description:

IQ-GREASE 9302 is a solvent-free, one-component, pre-mixed, silicon-free thermal paste, with high good thermal stability and high thermal conductivity.

It has been designed specifically as a thermal interface material for the dissipation of heat from heat-generating devices such as microprocessors, amplifiers and/or other high-power components. Typical applications include the dissipation of heat from bolted heatsinks onto microprocessors.

Characterized by a high viscosity and high thixotropy, the rheology of IQ-GREASE 9302 will assure “non-sagging” and “non-flow”, when applied on the component, and assures well-defined, well-controlled dot-profiles. Also, the rheology of IQ-BOND 9302 is versatile, allow standard dispensing processes, as well as high speed stencil printing processes

Furthermore, the chemistry of IQ-GREASE 9302 has been selected to provide good green strength, resulting in optimum pick & place performance when using automated processes. However, when slight pressure is applied on the paste during the heatsink mounting process, IQ-GREASE 9302 will easily flow to assure good wetting of the substrates, resulting in a homogeneous, thin bondline, assuring optimum thermal dissipation.

IQ-GREASE 9302 is a solvent-free, 100% solids material, assuring very low outgassing during high temperature storage testing.

For cleaning un-cured IQ-GREASE 9302 from stencils, screens, squeegee, or other equipment, the use of IQ-CLEANER 9500 is recommended.

Product Properties:

- Appearance: White , Non-Sagging, high viscosity & thixotropic paste
- Chemistry: Silicon-free
- Odor: Faint
- Mix-Ratio: Not Applicable – pre-mixed single component adhesive
- Viscosity: ~ 500.000 mPa.s (Brookfield CP52, 25°C at 0,3 rpm)
- Thixotropic Index: > 5 (Brookfield SSA, SC-25 – ratio of 5 rpm / 50 rpm)



- Density: ~ 2,4 gr/cc
- Thermal Conductivity: ~ 3,1 W/m.K

Processing parameters:

IQ-GREASE 9302 is suitable for most common dispensing and printing systems.

A typical application process includes of following steps:

- Pre-clean the heatsink and component interface with a cleaning solvent, such as isopropyl alcohol, ethylacetate or acetone prior to assembly.
- Dispense or print IQ-GREASE 9302 onto the processor or heatsink surface.
- Assemble the processor and heatsink with clips, bolts, screws and/or other constant-pressure fasteners.

Storage stability:

Storage stability is 12 months from date of production, when stored at room temperature.

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