

BERGQUIST LIQUI FORM TLF4500CGEL-SF 4.5 W/mK, one-component, cure-in-place liquid Thermal Interface Material based on silicone-free chemistry

1 CUSTOMER CHALLENGES

- » 4.5W/mK thermal performance is required to meet the needs of ADAS with increased power systems.
- » Low outgassing is needed to avoid fogging of camera lenses, which can be achieved with silicone-free chemistries.
- » High shot consistency for high throughput manufacturing and cure-in-place 1k gel*.

* versus conventional one-component pre-cured materials

2 RECOMMENDED TECHNOLOGY

- » Henkel has developed a one-component, silicone-free, liquid form solution: BERGQUIST LIQUI FORM TLF4500CGEL-SF.
- » Its silicone-free technology passes hazing and fogging tests, and it is optimized for optical systems.
- » It offers excellent vertical gap stability for long-term reliability and performance.



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3 MASS PRODUCTION PROCESS SET-UP

- » Through close collaboration with the dispensing equipment supplier, Henkel has engineered a material that meets all customer requirements.
- » Henkel Automotive Electronics experts provide close technical and on-site engineering support for validation and scale-up.
- » All dispensing tests with customers and equipment suppliers have confirmed that BERGQUIST LIQUI FORM TLF 4500CGEL-SF (1K cure-in-place material) can be processed 4x faster than 1K pre-cured materials in production processes.

CUSTOMER BENEFITS

High dispense rate, 1k/ one-part
at 45 gms/min rate for better
production manufacturing

Excellent handling properties
and very fast dispensing speed



REACH OUT TO OUR EXPERTS TO PARTNER UP IN SOLUTIONS
FOR SEALING APPLICATIONS IN AUTOMOTIVE ELECTRONICS.

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