

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

? 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.



GET IN TOUCH WITH US

Europe, Germany | Henkel AG & Co. KGaA (Headquarters) Henkelstraße 67 | 40589 Düsseldorf | Phone: +49 211 797-0

America, USA |Henkel Corporation Madison Heights | 32100 Stephenson Highway Madison Heights, MI 48071 | Phone: +1 248 583 9300

Henkel

Asia-Pacific, China | Henkel Investment Co., Ltd. | Building 7 & Building 6 (5F-6F), The Springs Center No.99 Jiang Wan Cheng Road | Yang Pu District, Shanghai 200438 | Phone: +86 21 2891 8000



BERGQUIST LIQUI FORM TLF4500CGEL-SF

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

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.



www.henkel-adhesives.com/automotive

The information provided herein, especially recommendations for the usage and the application of our products, is based upon our knowledge and experience. Due to different materials used as well as to surying working conditions beyond our control we strictly recommend to carry out intensive trials to test the suitability of our products with regard to the required processes and applications. We do not accept any liability with regard to the above information or with regard to any verbal recommendation, except for cases where we are liable of gross negligence or false intention. The information is protected by copyright. In particular, any reproductions, adaptations, translations, storage and processing in other media, including storage or processing by electronic means, enjoy copyright protection. Any exploitation in whole or in part thereof shall require the prior written consent of Henkel AG & Co. KGaA. Except as otherwise noted, all marks used in this document are trademarks and/or registered trademarks of Henkel and/or its affiliates in the US, Germany, and elsewhere. @ Henkel AG & Co. KGaA, og/2020