



Engineered Materials Systems Inc.
100 Innovation Court
Delaware, OH 43015
740-362-4444
Fax: 740-362-4433
Web site: www.emsadhesives.com

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Contact

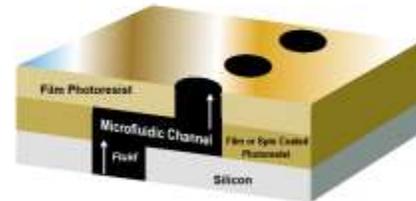
Joel Provence, Electronics Materials Manager
(740) 203 2947
E-mail: jprovence@emsadhesives.com
Web site: www.emsadhesives.com

New Dry-Film Negative Photoresist for MEMS and Wafer-Level Packaging

DELAWARE, OH — April 2017 — Engineered Material Systems, Inc., a leading global supplier of negative photo resist materials for MEMS and TSV passivation/sealing applications, is pleased to introduce the DF-4014 dry-film negative photoresist for use in micro-electro mechanical systems (MEMS), wafer-level packaging and CMOS applications (TSV sealing). This material formulation has been optimized for hot roll lamination and processing on MEMS and IC wafers.

The cured chemistry can withstand harsh environments including resistance to extreme moisture conditions and corrosive chemicals.

DF4014 is extremely hydrophobic in nature, providing chemical and moisture resistance. Water will form a contact angle on the surface at $> 90^\circ$. It is tougher (less brittle) than most negative photoresists on the market with a glass transition temperature of 145°C (By DMA Tan Delta) and a moderate modulus of 4.5 GPa at 25°C . DF-4014 is compatible with and can be used in contact with the EMS line of spin-coatable photoresists.



DF-4014 is the latest addition to Engineered Materials Systems' full line of film and liquid negative photo resists formulated for making microfluidic channels on MEMS devices and integrated circuits.

For more information about the DF-4014 negative photo resist or to learn how Engineered Materials Systems can define, develop and create an engineered material solution that is right for your company, visit www.emsadhesives.com.



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About Engineered Material Systems

Engineered Materials Systems, Inc. (EMS) technology focus is on electronic materials for semiconductor, circuit assembly, photovoltaic, printer head, camera module, disk drive and photonics assembly product lines. The company creates continual improvements that will guide its customers into the future. For more information, visit www.emsadhatives.com.