

ESL ELECTROSCIENCE

CERAMIC TAPES & THICK-FILM MATERIALS 416 East Church Road King of Prussia, PA 19406-2625 USA T: 610.272.8000 F: 610.272.6759

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FUGITIVE TAPE

49000

Organic-Based Tape for use in Creating Channels in Sensors

ESL 49000 is a flexible cast film of fugitive powder dispersed in an organic matrix. This material is designed to be burned out in the temperature range of 600°C-700°C to yield a void where the tape was placed. ESL 49000 tape is provided on a silicone-coated polyester film to protect the tape from mechanical damage and aid in handling.

This tape is generally used with zirconia or alumina green tapes and can be co-fired for use in oxygen sensors.

TAPE THICKNESS:

(custom thicknesses available)

PROCESSING:

Parts are formed by blanking sheets of the tape to the required green size prior to firing. The burnout cycle depends on the part configuration and size.

TYPICAL FIRING PROFILE FOR PARTS:

Depends on matrix tapes

125µm +/- 10%

49000 0805-new

ESL Affiliates

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See Caution and Disclaimer on other side.

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49000 0805 new

CAUTION: Proper industrial safety precautions should be exercised in using these products. Use with adequate ventilation. Avoid prolonged contact with skin or inhalation of any vapors emitted during use or heating of these compositions. The use of safety eye goggles, gloves or hand protection creams is recommended. Wash hands or skin thoroughly with soap and water after using these products. Do not eat or smoke in areas where these materials are used. Refer to appropriate MSDS sheet.

DISCLAIMER: The product information and recommendations contained herein are based on data obtained by tests we believe to be accurate, but the accuracy and completeness thereof is not guaranteed. No warranty is expressed or implied regarding the accuracy of these data, the results obtained from the use hereof, or that any such use will not infringe any patent. Electro-Science assumes no liability for any injury, loss, or damage, direct or consequential arising out of its use by others. This information is furnished upon the condition that the person receiving it shall make their own tests to determine the suitability thereof for their particular use, before using it. User assumes all risk and liability whatsoever in connection with their intended use. Electro-Science's only obligation shall be to replace such quantity of the product proved defective.