



ESL Electro-Science

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TRANSFER TAPE

41030-T

Lead-Free Ceramic Transfer Tape for 430 type Stainless Steel

ESL 41030-T is a flexible cast film of inorganic dielectric powder dispersed in an organic matrix, designed to be applied to a 430 type stainless steel substrate and fired at 850°C. The 41030-T film will yield a dense body after firing. A pressure/temperature combination of 1.7 to 3.4 MPa and 70°C works well for laminating this tape. Transfer

tape is provided on a silicone coated polyester film to minimize environmental contamination, to protect it from mechanical damage, and to aid in handling.

DIELECTRIC CONSTANT:

(at 1 kHz) 9.0-10.0

DISSIPATION FACTOR:

(at 1 MHz) ≤ 0.5 %

INSULATION RESISTANCE:

(at 100 VDC, 25°C) > 10¹² Ω

BREAKDOWN VOLTAGE:

(DC) > 1000 V/25 μm

FIRING TEMPERATURE:

850°C

FIRED SHRINKAGE:

(Using recommended processing parameters)

X and Y 0%

Z 50%-55%

FIRED DENSITY:

(Theoretical) 2.82 g/cm³

TAPE THICKNESS:

110-140 μm

COLOR:

Blue

41030-T 0403 D

ESL Affiliates

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See Caution and Disclaimer on other side

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41030-T 0403 D

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.
