ESL ELECTROSCIENCE
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TRANSFER TAPE 41030-T

RoHS Compliant* 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)		> 10^{12} 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/cm^3
TAPE THICKNESS:		110-140 μm
COLOR:		Blue

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***None of the six substances referred to in the RoHS Directive (2002/95/EC) are used in the formulation of this product.**

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 vapours 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.