Alumina Tape

44007-X

High Purity Alumina HTCC Tape

ESL 44007-X is a family of flexible cast films of 99.99+% alumina powder dispersed in an organic matrix. This material is designed to be fired at 1550°C to yield a dense white-colored alumina ceramic. The 44007-X family is provided on a polyester film to protect the tape from mechanical damage and aid in handling.

PROCESSING PARAMETERS

LAMINATING: 21 MPa at 70°C
FIRING TEMPERATURE: 1550°C
TIME AT PEAK: 1.5 - 2.0 hours

TAPE CHARACTERISTICS

TAPE THICKNESS: 50μm, 70μm, 100μm, 130μm, 150μm
THICKNESS UNIFORMITY: Nominal Thickness ±10%
TAPE WIDTH: 8 Inches on 12 inch wide polyester
SHRINKAGE: (90° layer rotation) XY: 15.8% ± 1.0
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 overshoes 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.

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