



# ESL Electro-Science

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## 4026 4026-BLUE 4026-GREEN

### DIELECTRIC COMPOSITION

ESL 4026 glass paste is designed for sealing ceramic (alumina) plates at a low temperature. Provided in screen printable form, the glass has a coarse particle size that makes it useful for sealing with thick cross-sections. When properly fired, ESL 4026 produces, transparent seals that can be used in a variety of packaging and hermetic sealing applications. Except for color, the 4026-GREEN and 4026-BLUE are similar in all respects to the 4026

### PASTE DATA

**RHEOLOGY:** Thixotropic, screen printable paste

**VISCOSITY:** 225±25 Pa-s  
(Brookfield RVT, ABZ Spindle, 10 rpm, 25.5°C±0.5°C)

<b>COLOR:</b>	4026	Colorless
	4026-BLUE	Blue
	4026-GREEN	Green

**SHELF LIFE:** 6 months

### PROCESSING

**SCREEN MESH/EMULSION** 200/38 µm

**LEVELING TIME:** (25°C) 5-10 minutes

**DRYING AT 125°C:** 10-15 minutes

**FIRING TEMPERATURE RANGE:** See profiles on back page

BURN-OFF CYCLE (30 minutes) 325°C-375°C Rate-40°C/minute

SINTERING CYCLE (30 minutes) 375°C-550°C Rate-40°C/minute

SEALING CYCLE (30 minutes) 550°C-625°C Rate-20°C/minute

**SUBSTRATE FOR CALIBRATION:** 96% alumina

**THINNER:** ESL 401

4026 Series 0401 C

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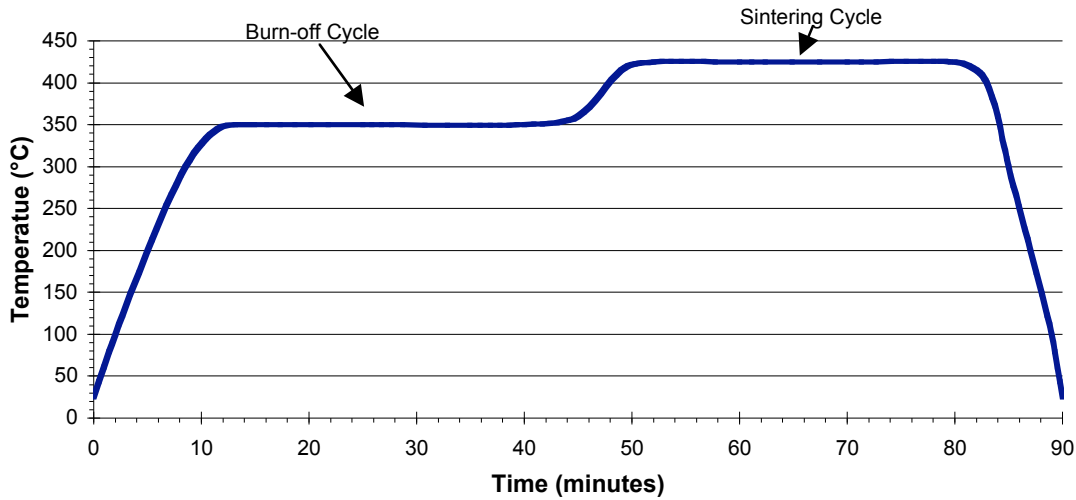
See Caution and Disclaimer on other side

## TYPICAL PROPERTIES

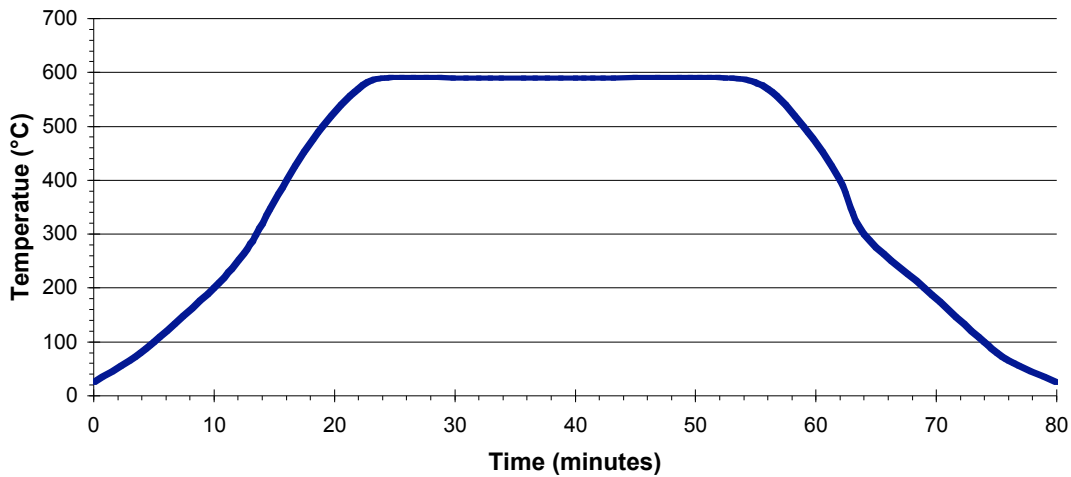
FIRED THICKNESS: (One layer)

18±8 μm

### Burn-off and Sintering Cycle



### Sealing Cycle



4026 Series 0401 C

**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.