



ESL ELECTROSCIENCE

CERAMIC TAPES &
THICK-FILM MATERIALS

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OVERGLAZE COMPOSITION

4774-BCG

Low-Temperature-Firing Overglaze for Resistors

ESL 4774-BCG is a low temperature screen printable green resistor overglaze especially formulated for laser trimming when used with ESL Resistor Systems.

PASTE DATA

Rheology:	Thixotropic, screen-printable paste
Viscosity: (Brookfield RVT, 10 rpm, ABZ spindle, 25.5 ± 0.5 °C)	275 ± 40 Pa.s
Colour:	Translucent green
Shelf Life (20 - 25 °C):	6 months

PROCESSING

Screen Mesh, Emulsion:	325 S/S, 37.5 µm
Levelling Time (at 20°C):	5 - 10 min
Drying Time (at 125°C): (dependent on substrate volume)	10 - 15 min
Firing Temperature Range:	525°C - 565°C in air
Optimum:	525°C
Time at peak:	10 - 15 min
Total Firing Cycle:	30 min
Substrate for Calibration:	96% alumina
Thinner:	ESL 401

ESL Europe 4774-BCG 0304-C

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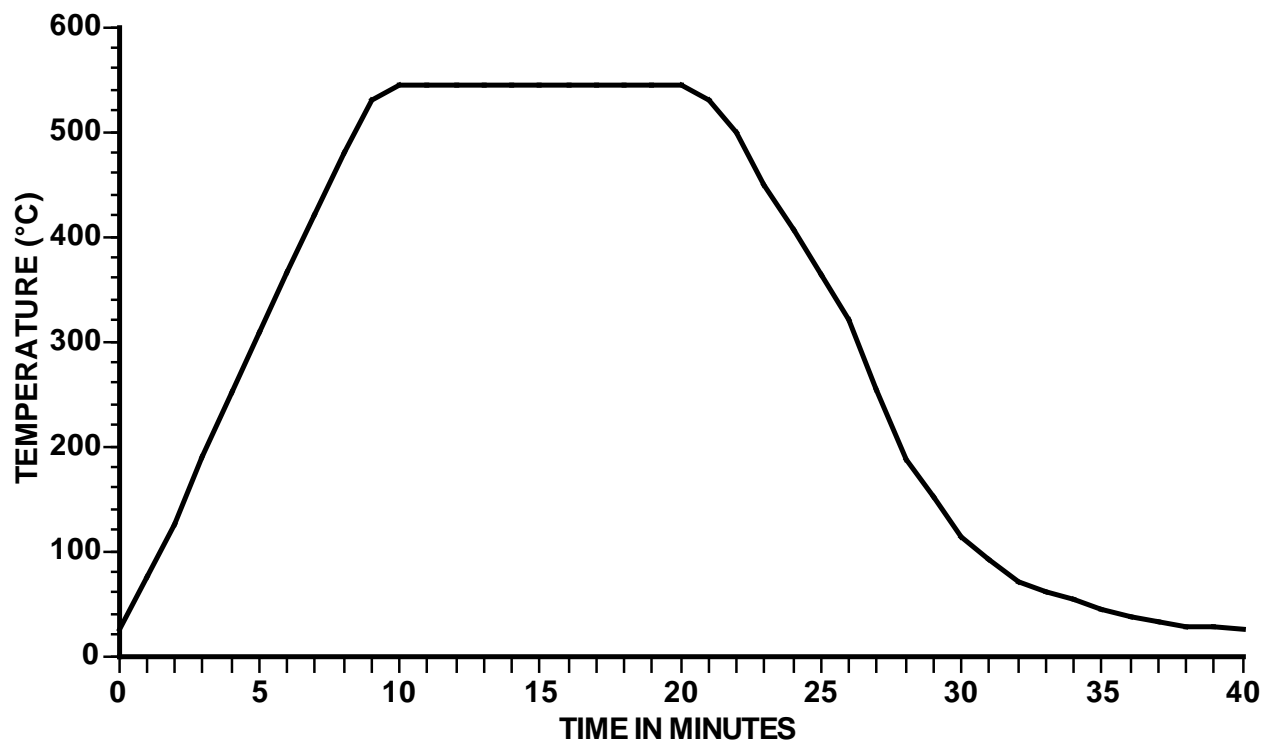
See Caution and Disclaimer on other side.

TYPICAL PROPERTIES

Fired Thickness:

12 - 18 μm

4774-BCG RECOMMEND FIRING PROFILE



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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.

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