



ESL Electro-Science

416 East Church Road • King of Prussia, PA 19406-2625, USA
610-272-8000 • Fax: 610-272-6759 • www.ElectroScience.com • Sales@ElectroScience.com

POLYMER SILVER CONDUCTOR

1120

Low Temperature Curing

ESL 1120 is a silver-filled resin material that is designed for use as a conductor on low temperature substrates. This silver conductor may be used on flexible substrates using roller applications.

PASTE DATA

RHEOLOGY:	Thixotropic, screen printable paste
VISCOSITY: (Brookfield RVT, No. 4 Spindle, 10 rpm, 25.5±0.5°C)	4.5±1 Pa•s
SHELF LIFE: (at 0°C recommended)	6 months

PROCESSING

DRYING AT 125°C:	1-2 minutes
CURING SCHEDULE:	150°C/30 minutes
SUBSTRATE FOR CALIBRATION:	Mylar®
THINNER:	ESL 1120 Thinner

1120 0401 New

ESL Affiliates

ESL China • Rm#1707, Tower A • City Center of Shanghai • 100 Zunyi Road • Shanghai, China 200051 Tel: (011-86)-21-62370336 • Fax: (011-86)-21-62370338 • eslchina@guomai.sh.cn

ESL Europe • 8 Commercial Road • Reading, Berkshire, England RG2 0QZ • Tel: (011-44)-118-918-2400 • Fax: (011-44)-118-986-7331 • Sales@ESLEurope.co.uk

ESL Nippon • Sukegawa Bldg • 6th floor • 3-4 Yanagibashi 1-chome • Taito-ku • Tokyo 111, Japan • Tel: (011-81)-3-3864-8521 • Fax: (011-81)-3-3864-9270 • NipponSales@ESLNippon.com

See Caution and Disclaimer on other side

TYPICAL PROPERTIES

CURED THICKNESS: (measured on a 100mm x 10mm conductor track)	35±5µm
APPROXIMATE COVERAGE: (at 35µm cured thickness)	35cm ² /gram
RESISTIVITY: (measured on a 100mm x 10mm conductor track)	≤20mΩ/sq.
RESISTANCE TO ACETONE:	good
FLEXIBILITY: (TO BS EN ISO 1519:1995)	good, no cracking with 4mm cylindrical mandrel
ADHESION: (to DIN 53151)	grade 0

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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 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.
