Electro-Science Laboratories, Inc.
416 East Church Road • King of Prussia, PA 19406-2625, U.S.A
610-272-8000 • Fax: 610-272-6759 • www.ElectroScience.com • Sales@ElectroScience.com

POLYMER RESISTOR 15501

For High Temperature Applications

ESL 15501 is a high temperature resistor designed for use on glass, ceramic, flexible polyimide film, insulated aluminum and other metal substrates. When blended with ESL 19101 silver conductor, it provides resistivities in the range of 15 milliohms per square to 35 ohms per square. It can be used with ESL 14401 polymer dielectric when co-cured with the dielectric.

PASTE DATA

RHEOLOGY:	Thixotropic, screen printable paste
VISCOSITY: (Brookfield RVT, ABZ Spindle, 10 rpm, 25.5° ± 0.5°C)	130±10 Pa·s
SHELF LIFE: (5°C)	3 months
(-18°C)	6 months

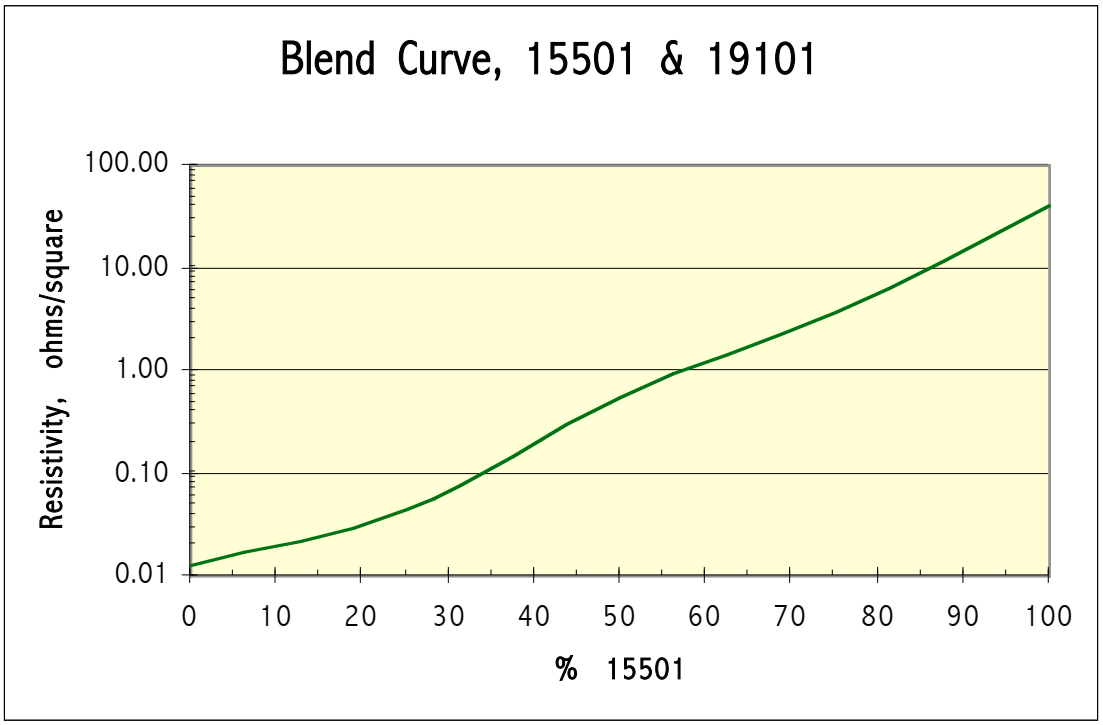
PROCESSING

SCREEN MESH/EMULSION:	200-325/20-30 □m
LEVELING TIME: (25°C)	5-10 minutes
DRYING AT 125°C:	10-15 minutes
CURING CYCLE:	320°C/150 minutes
	(10°C-15°C/min. rise)
SUBSTRATE OF CALIBRATION:	glass
THINNER:	ESL 455

ESL Affiliates
Japan: ESL-Nippon Company, Ltd. • 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
China: Shanghai Agmet Electro-Science Laboratory Ltd. • Second Floor Bldg. 12A1 • #223 North Fe Te Road • Waigaoqiao Free Trade Zone • Shanghai, China
Tel: (011-86)-21-5866-0497 • Fax: (011-86)-21-5866-0497 • ShanghaiSales@ShanghaiESL.com
Europe: Agmet, Ltd. • 8 Commercial Road • Reading, Berkshire, England RG2 0QZ • Tel: (011-44)-118-918-2400 • Fax: (011-44)-118-986-7331 • Sales@ESLEurope.co.uk
See Caution and Disclaimer on other side.

TYPICAL PROPERTIES

CURED THICKNESS:	10-15 μm
RESISTIVITY: (12.5 μm cured thickness)	35-45 Ω/sq.
RESISTIVITY STABILITY: (16 hrs. at 250°C)	≤ 10%
COMPATIBILITY:	ESL 14401 Dielectric, ESL 19101 Conductor



15501 0212-New