



Argenhelvet Holding

Polymeric Composition **ELE3800** Series

DESCRIPTION

Polymer conducting ink **ELE3800 Series** is specially designed for Photovoltaic applications on Thin Film Solar Cells.

TYPICAL APPLICATIONS

- Thin Film Solar Cells

KEY FEATURES

ELE3800 Series is designed for:

- Low contact resistance
- High bulk conductivity

TYPICAL PROPERTIES

- **Solids content:** 77.5 % typical
- **Viscosity:** 45000 – 80000 cP
- **Sheet resistivity:** $< 0.010 \Omega / \text{square} / 25 \mu \text{m}$
- **Adhesion / Tape Pull:** No Conducting Metal Transfer

PROCESSING

- **Screen Printing Equipment:** Reel-to-reel, semiautomatic, manual
- **Substrates:** Polyester, polyimide, PVC, ABS, polycarbonate, ITO/FTO coated glass
- **Screen Type:** Polyester, stainless steel
- **Typical Cure Temperature:** Oven 145°C for 30 minutes
- **Clean-up Solvent:** S1008

THINNER

ELE3800 Series is optimized for screen printing. However, if thinning is necessary, T103 should be used for slight adjustments.

STORAGE

ELE3800 Series should be stored at 10 – 30°C within the sealed containers. Settling of solids may occur during storage, so the material should be stirred thoroughly prior to use.

SHELF LIFE

ELE3800 Series has a shelf life of 6 months from date of shipment for factory-sealed containers, stored under our recommended condition.

APPLICATION ASSISTANCE

Our Application Specialist are available to assist you in production star-up with the products. Please contact us for more information.

HEALTH AND SAFETY

Our products are intended for industrial use by trained personnel. The following precautions should be taken when handling the products:

- Read the Material Safety Data Sheet before processing the products.
- Use properly designed engineering controls, such as local ventilation, to limit operating personnel exposures.
- Keep container closed when not in use.
- Do not ingest. Harmful if swallowed.
- If contact with skin occurs, wash affected area immediately with water.

Argenhelvet Holding Limited

Flat/Rm 1305, Universal Trade Centre,

3-5A Arbuthnot Road, Central,

Hong Kong

Tel.: 852 – 3568 4032

Email: sales@argenhelvet.com

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