

SOL530 Series



efficiency

Patent Pending

FRONT-SIDE PASTE



Metallization Paste for Low Temperature Processing

■ For Organic PV

An industry leader in metallization pastes for crystalline solar cells, Heraeus has now developed a new line of screen printable silver paste products for low temperature processing for the thin film market segment.

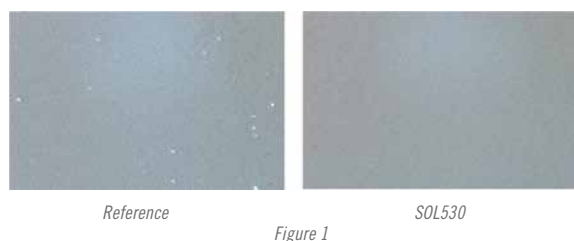
Heraeus' SOL530 for Organic PV possesses faster cure times, higher efficiencies and greater adhesion than commercially available materials.

KEY BENEFITS

- High efficiencies
- Lower curing temperatures
- Faster cure time
- Lower resistivity
- Stronger adhesion
- Better contact

HERAEUS SOL530 FOR ORGANIC PV

Heraeus' new SOL530 is a fast curing, screen printable, low temperature processing paste that has the added benefit of large area printing with minimal pinholes. Reduced pinholes improve the current flow from solar cells. Figure 1 shows the reduced number of pinholes formed using SOL530 relative to typical commercially available films (reference material).



PRODUCT SPECIFICATIONS

	SOL530
Viscosity	10 – 30 kcps
Resistivity	< 20 m /sq/mil
Adhesion	NA
Solid content (%)	80 %
Polymer Type	Thermoplastic

RECOMMENDED PROCESSING GUIDELINES

	SOL530
Application	Organic PV
Cure Temp.	125– 135°C
Cure Time	5– 10 minutes
Recommended Screens	Polyester or Stainless Steel
Screen Parameters	PET 1500; 305/40 PW; 30° bias; 15 µm of EOM

Storage:

DO NOT REFRIGERATE.

Store in a dry location at 5°C–25°C. Allow paste to come to room temperature prior to opening. Spatulate well before using.

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