Hecaro®
Electrically Conductive Adhesive for PV

Heraeus’ newly developed electrically conductive adhesive (ECA) for PV applications – Hecaro® – resumes Heraeus’ long tradition in providing ECAs to the automotive and semiconductor industry. Hecaro® is the answer to the PV industry’s need for a reliable, cost-effective, fast curing and screen-printable material.

Using a unique and patented set of pure Ag particles, Hecaro® provides excellent conductivity while viscosity and curing time allow for high-throughput processing. Hecaro® has proven its reliability in long-term climate chamber testing and got TÜV certification.
**Product feature:** Low resistivity, high reliability, excellent long term printability, can reach print speed at 300mm/s

**Volume resistivity (Ω·CM):** $2 \times 10^{-4}$  
**Shear strength (N / mm²):** 6  
**E-modules 25°C (Mpa):** 1000  
**Curing condition:** 180°C >30S  
**Application:** Printing and jetting for shingled module

**Product feature:** Solvent free, flexible, high elongation, easy for rework, can reach print speed at 300mm/s

**Volume resistivity (Ω·CM):** $5 \times 10^{-4}$  
**Shear strength (N / mm²):** 1.5  
**E-modules 25°C (Mpa):** 50  
**Curing condition:** 180°C >30S  
**Application:** Printing and jetting for shingled module

**Product feature:** Low resistivity, high reliability, flexible, can reach print speed at 300mm/s

**Volume resistivity (Ω·CM):** $2 \times 10^{-4}$  
**Shear strength (N / mm²):** 8  
**E-modules 25°C (Mpa):** 100  
**Curing condition:** 180°C >30S  
**Application:** Printing and jetting for shingled module

**Recommended application condition:**

Store in a freezer at or below -20° C.  
Allow adhesive to come to room temperature prior to opening the container to avoid condensation.  
Stir well before using.

Hecaro® has been certified by TÜV Rheinland standard and bifacial modules.

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