Selectively Coated Ribbon

Heraeus’ newly developed cell-connecting ribbon – Selectively Coated Ribbon (SCR) for PV applications – increases module power easily. Its unique design enables a plug and play process integration. SCR can be used with all standard soldering and stringing technologies including contact, infrared, inductive and manual soldering. SCR has proven its reliability in long-term climate chamber tests. This ribbon meets the highest standards with its outstanding quality and precision.

Upgrade your Modules!

KEY BENEFITS

- Enhanced internal reflection
- Power gain at every angle of incidence
- Increased module power
- Plug and play process integration
SELECTIVELY COATED RIBBON (SCR)
Due to the ribbons precision and unique design, the integration into an existing module manufacturing process is simple and requires no further investment.

POWER GAIN
The reflective white, high-stability coating on the SCR leads to higher internal reflection and to higher Short Cut Current (Isc). Statistically proved results show an average power gain of 1.9 Watt per module.*

*External test results. Series of 84 60-cell modules (5BB, Mono, Perc, full cell)

MECHANICAL PROPERTIES
Optimized mechanical properties of the SCR improve the thermo-mechanical stress situation caused by the different thermal expansion coefficients of the copper ribbon and silicon cell. A specially designed heat treatment process, applied before the coating process, guarantees the needed reliability and fatigue resistance for solar cell interconnections.

RELIABILITY
- Thermal cycling test: 600 cycles passed
- Damp heat test: 3000h passed
- Combined Damp heat and UV: 360 kWh/m² passed

DIMENSIONS
To ensure optimal power-gain in your module, this product will be available in a variety of dimensions. Heraeus’ Application Engineering Team will assist you in finding the right product specification for your application.