

# Certincoat® TCO Glass Coating

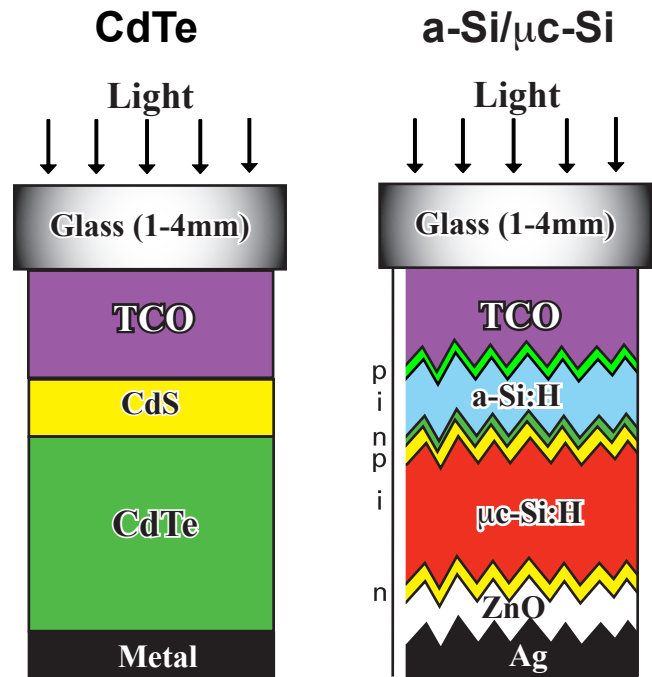
Growing demands for renewable energy make Certincoat® TCO glass coating a vital element in your future solar cell applications. Certincoat® TCO glass coatings are an excellent choice for thin-film solar cells, and provide glass manufacturers cost effective glass applications in photovoltaics.

## Characteristics

There are two different transparent conductive oxide (TCO) options produced by Arkema's online CVD (Chemical Vapor Deposition) system for thin-film photovoltaics (PV) applications: Arkema can supply both low and high haze tin oxide coatings for the different thin-film PV technologies.

Certincoat® TCO Glass Coatings offer:

- High transmission of sunlight
- Durability of pyrolytic coating
- Ease in use during cutting, insulating, heat treating, and bending
- High conductivity
- Low cost
- Varying haze and sheet resistance for specific needs



Thin-film PVs

- Low-haze tin oxide used as TCO for Cadmium Telluride (CdTe) cells
- High-haze tin oxide used as TCO for amorphous-silicon cells

## Technical Data

	Emissivity, $\epsilon$	Haze	Sheet Resistance ( $\Omega/\text{sq}$ )	$T_{\text{vis}}^1$
Certincoat® Low-haze TCO Glass <sup>2</sup>	<0.12	< 3.5%	< 10	> 80%
Certincoat® High-haze TCO Glass <sup>2</sup>	<0.12	> 10%	< 10	> 80%
Uncoated Clear Monolithic Glass (3.2mm)	0.84	--	--	88%

<sup>1</sup> $T_{\text{vis}}$  – Center of glass values calculated with NFRC 100-2001 conditions.

<sup>2</sup>Coatings on 3.2mm glass.

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