



Lucent.
cleanenergy

Affordable solar energy is our passion.

www.lucentcleanenergy.in

The **Global Leader** in Solar EVA Film

TOPEVA™ ENCAPSULANTS

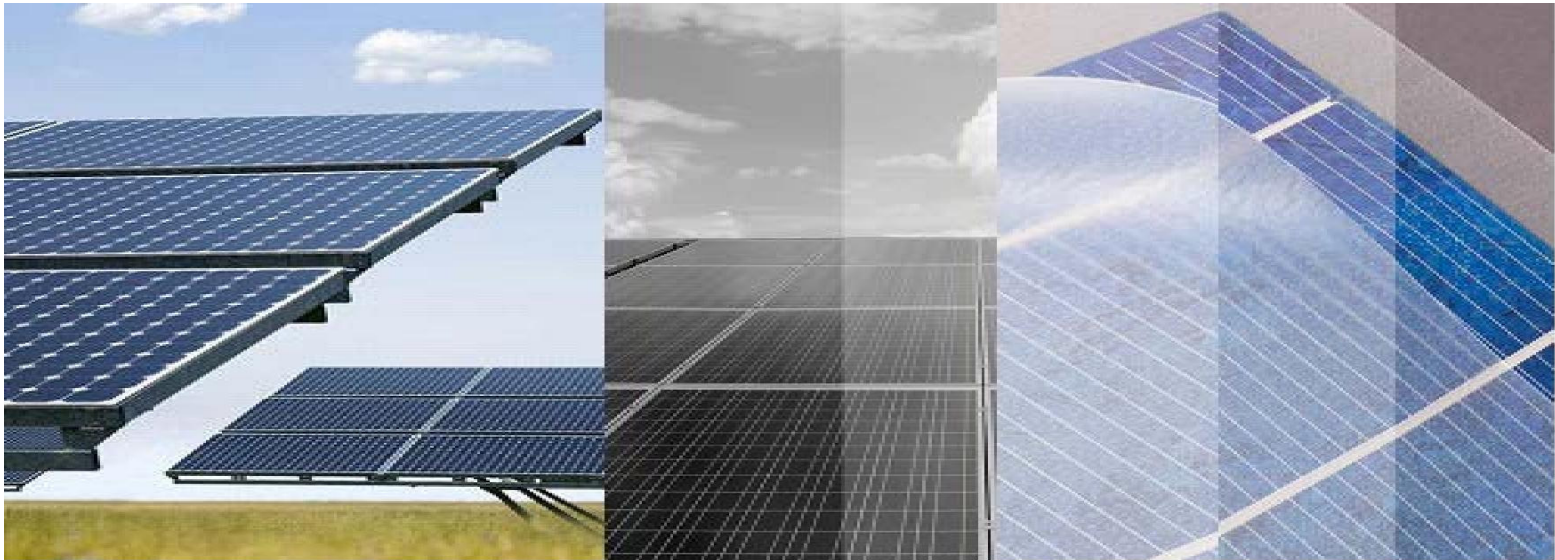
SUPERIOR QUALITY

RELIABLE SUPPLY

STRONG ADHESION TO GLASS

CUSTOMER SUPPORT

CUSTOMIZED SOLUTIONS



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About us

Lucent CleanEnergy is the global manufacturer and supplier of **TOPEVA™** And advanced cost effective TUV certified solar encapsulant, providing long term durability, improved efficiency and high performance to solar modules. We are the first and the largest solar encapsulant film manufacturer in India with more than 10 million sq. mt. annual capacity.

Global solar module manufacturers rely on us for our high quality EVA film, cost savings through innovative materials an R & D, manufacturing scale, world's most advanced encapsulation technology & encapsulation expertise.

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Vision

“To become globally renowned integrated solar company.”

Mission

“To be most **respected** and **responsible** supplier of high quality solar encapsulant films using state of the art technologies, dedicated R&D, **proprietary** production process and strong ethical values, thus create greater value for end customers and various stakeholders.”

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Technology

We have installed the world's most advanced and fully customized technology from Europe. Our fully automated line produces the high quality EVA film with less shrinkage (<1%) and with ultra high gel content (>90%). Our advanced technology enables us to create customized and affordable solutions for each customer.

SMART philosophy

State of the art facility: Our state of the art clean-room manufacturing facility with highly advanced technology is located in Gujarat -The Solar Hub of India.

Materials excellence: At Lucent, we have expertise in testing & selection of raw materials with proven quality. We have in house R & D to develop new materials which improve quality, competitiveness and life time of our film.

Adjustable to customer needs: We are fully committed to provide the best and customized solutions to each customer and we adjust our manufacturing process to satisfy customer's needs.

Reliability & consistent quality: At Lucent, we strongly focus on reliability & consistent quality of our product through continuous process monitoring, collaborative research with international organizations and in R & D.

Technological innovation: At Lucent, we strive to innovate our technology and improve it to create customized solutions which are affordable.

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Product: TOPEVA™

The development of **TOPEVA™** was made possible through the collaboration between Europe's top-tier equipments manufacturers for solar energy and our team, who has plenty of experience in solar module manufacturing.

TOPEVA™ **Fast Cure (TE100FC)** is **TUV** certified next generation fast cure solar encapsulants, produced using our **proprietary** formulation, and are providing long term durability, improved efficiency and high performance to solar modules.

TOPEVA™ **Fast Cure (TE100FC)** is the first of its kind solar EVA sheet in India, which has been certified by TUV Rheinland® for 14 tests.

TOPEVA™ characteristics

- Leading **global** supplier of solar EVA films- fast cure and ultra fast cure
- Internationally** certified by **TUV & SGS**
- Produced using our **proprietary** formulation and advanced technology
- Ultra **high-gel content** (>90%)
- Very **low shrinkage** (<1%)
- Strong adhesion** to glass (>70 N/cm) and backsheet (>45 N/cm)
- Highest** light transmission (>92%)
- Outstanding **UV yellowing resistance**
- Excellent **heat ageing resistance**

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TE100FC: Industry standard Fast Cure EVA

Typical properties	Unit	TE100FC
Ultimate tensile strength	MPa	17
Ultimate elongation	%	600
Young's modulus	MPa	4.7
Density	g/cm ³	0.96
Optical transmission	%	92
Hardness Shore A/D		(70-75)/22
Refractive Index		1.482
Dielectric strength	V/mil	1600
Volume resistivity	Ohm/cm	5×10^{14}
Cross linking rate (Gel %)	%	75-85
UV Cut off wavelength	nm	360
Softening point	°C	64
Water absorption	%	<0.1
Adhesion to Glass	N/cm	>60

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Research & Development

Lucent's research and development efforts are focused on introducing new advanced grades which are competitive in price, optimizing the performance of our existing EVA film and improving its life time.

Our R & D team works closely with in-house manufacturing to improve each stage of EVA film manufacturing process. We are constantly seeking ways to reduce our environmental impact through product packaging and manufacturing efficiency solutions.

Quality assurance

Lucent is an **ISO 9001:2008** certified company.

Our quality control lab is fully equipped with:

Laminator: To simulate the manufacturing process of **PV modules** and prepare specimens for checking physical properties as per IEC standard.

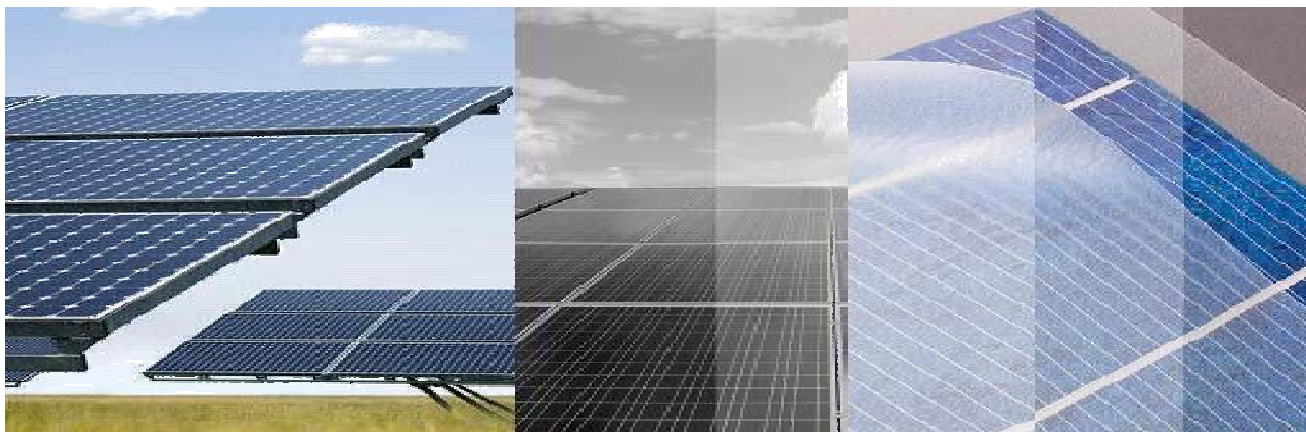
Gel content tester: To determine % gel content, represents cross-linking of EVA film.

Universal tensile testing: To determine tensile strength, elongation and adhesion of EVA film.

UV exposure testing: To simulate UV exposure for testing yellowness according to IEC standard.

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CONTACT US

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