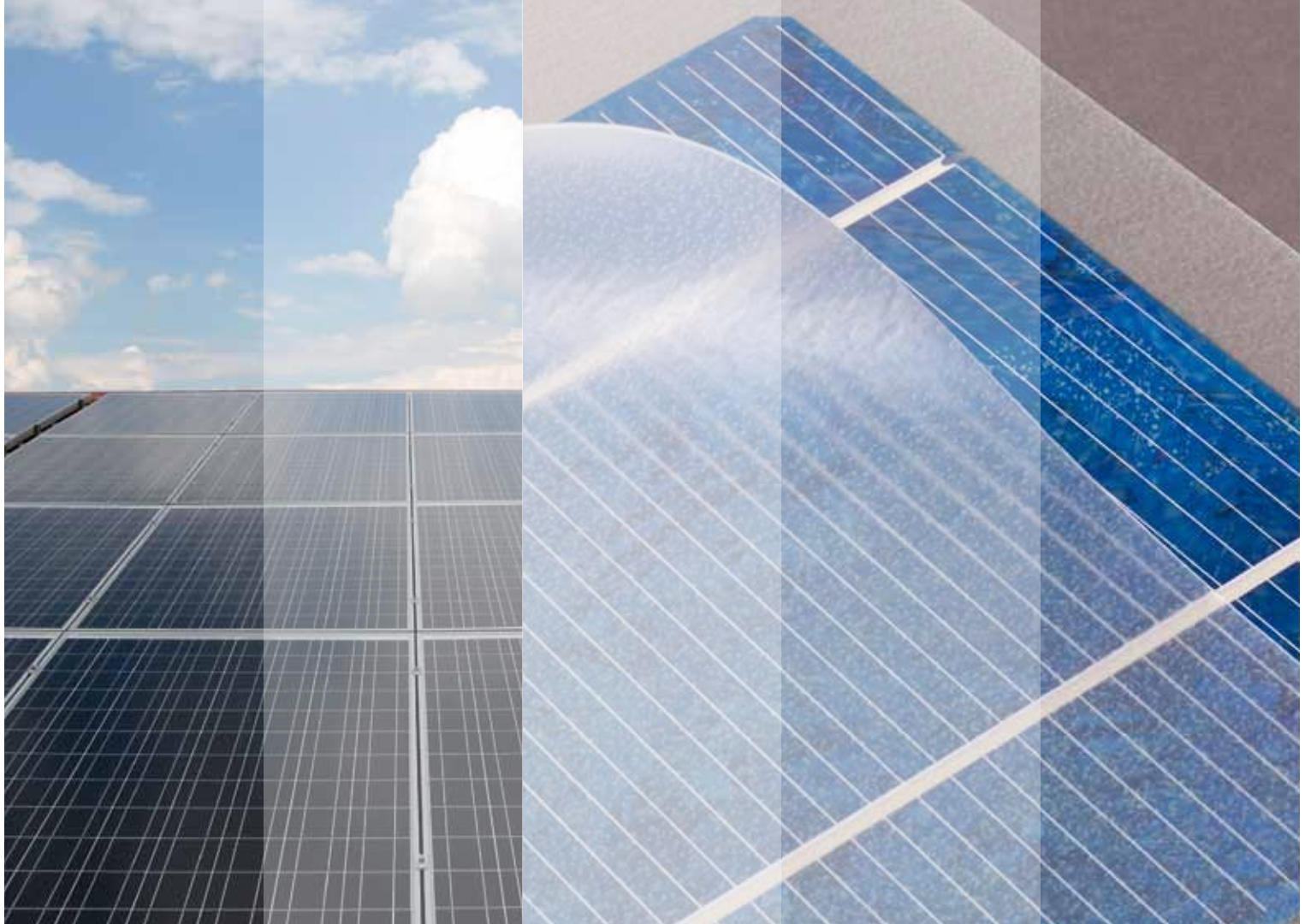


■■■■ VISTASOLAR[®] FILMS

ENCAPSULANTS FOR SOLAR CELLS.

- PROVEN QUALITY
- RELIABLE SUPPLY
- FLEXIBLE SERVICE
- CUSTOMER SUPPORT





VISTASOLAR® ENCAPSULANTS FOR SOLAR CELLS

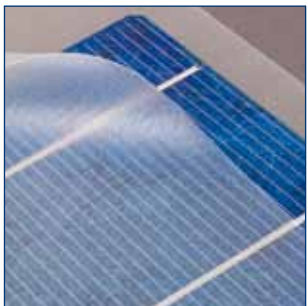
VISTASOLAR® provides excellent products and services to the PV industry - since 1980!

- leading supplier of EVA films – standard cure, fast cure and ultra fast cure EVA
- excellent reliability of IEC by TÜV tested products
- under UL file no E315694 registered products
- company certified to DIN EN ISO 9001, DIN EN ISO 14001 and OHSAS 18001
- increased capacity, flexible production
- fast response to customers needs



VISTASOLAR® has many years of experience in laboratory and application work!

- continuous and extensive **quality controls**
- assistance for customers with **laboratory controls** or **laminator trials**
- development of **new products**
- tests on own laminators and climate chambers in our state of the art PV laboratory in Indian Orchard, Massachusetts
- service for gel content tests
- on site assistance for optimised lamination cycles



VISTASOLAR® offers the widest range of EVA and other encapsulation films:

- innovative products **UFC (ultra fast cure)** – lowest cycle times
- **laminated EVA** with **back sheet** or **scrim** (non woven glass)
- EVA with different **surface properties**
- **TPU (non curing)** – with continuous process on roll laminator
- technical advantage by **automated production** and **inline controls**
- products made in Germany
- in 2011 production in Suzhou, China

Products of Solutia Solar GmbH

EVA based encapsulants VISTASOLAR®

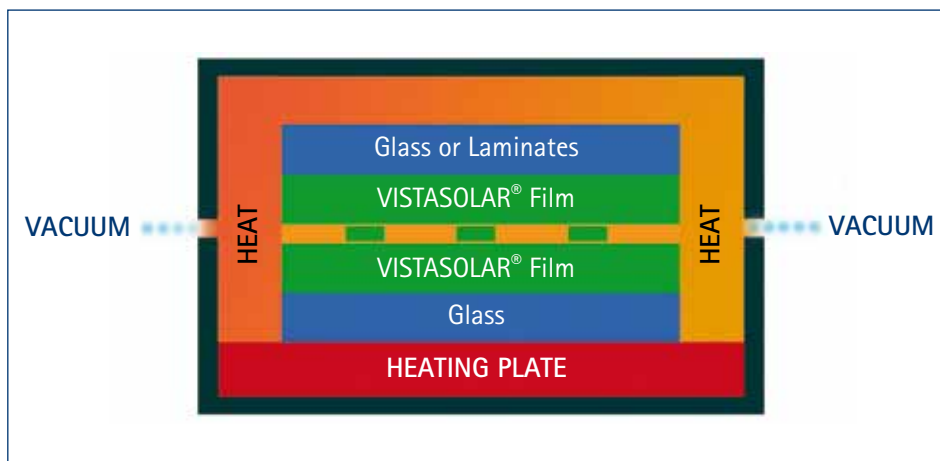
486.00 486.10	Fast cure Fast cure	One side sticky Both sides non sticky
496.00 496.10	Fast cure LS Fast Cure LS	One side sticky Both sides non sticky
520.43	Ultra Fast Cure LS	Both sides non sticky
485.00 / 485.10	Standard cure	Only on request

TPU based encapsulants VISTASOLAR®

517.84 TPU Film VISTASOLAR®	no curing – continuous processing on roll laminator excellent UV stability, reversible process for repair no measuring of gel content, easier to store
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- Width: max. 1650 mm, some types up to 2300 mm
coloured films and TPU films max. 1020 mm
- Gauge: 0.300 to 1.200 mm, standard 0.500 mm and 0.460 mm
- Shelf life: We strongly recommend to use the film within 6 months after production. UFC has a shelf life of 4 months.
Store dry (50 – 60 % r.h.) and below peak temperature of 30°C/ 85°F in undamaged original packaging according to our storage recommendations!
- Laminates: VISTASOLAR® films are available laminated to nonwoven glass (scrim) or various backsheet materials
- Packaging: Standard reel size is 150 meters with HDPE film as interlayer. Each reel is sealed into a black PE bag. Special aluminium packing on request.

Application of EVA VISTASOLAR® films:



	Temp. plate / Pumping time	Temp. plate / Lamination time
Standard Cure	142 - 150 °C / 5 min.	150 °C / 20 - 25 min.
Fast Cure	150 °C / 3 - 5 min.	150 °C / 10 - 15 min.
Ultra Fast Cure	150 °C / 2 - 3 min.	150 °C / 7 - 10 min.

VISTASOLAR® FILMS

ENCAPSULANTS FOR SOLAR CELLS.

- LONGTERM PHOTOTHERMAL STABILITY
- VERY HIGH LIGHT TRANSMISSION
- SELECTION OF SHORT TO VERY SHORT CYCLE TIMES
- FLEXIBLE RESPONSE TO CUSTOMERS NEEDS
- WORLD WIDE SALES AND SERVICE



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