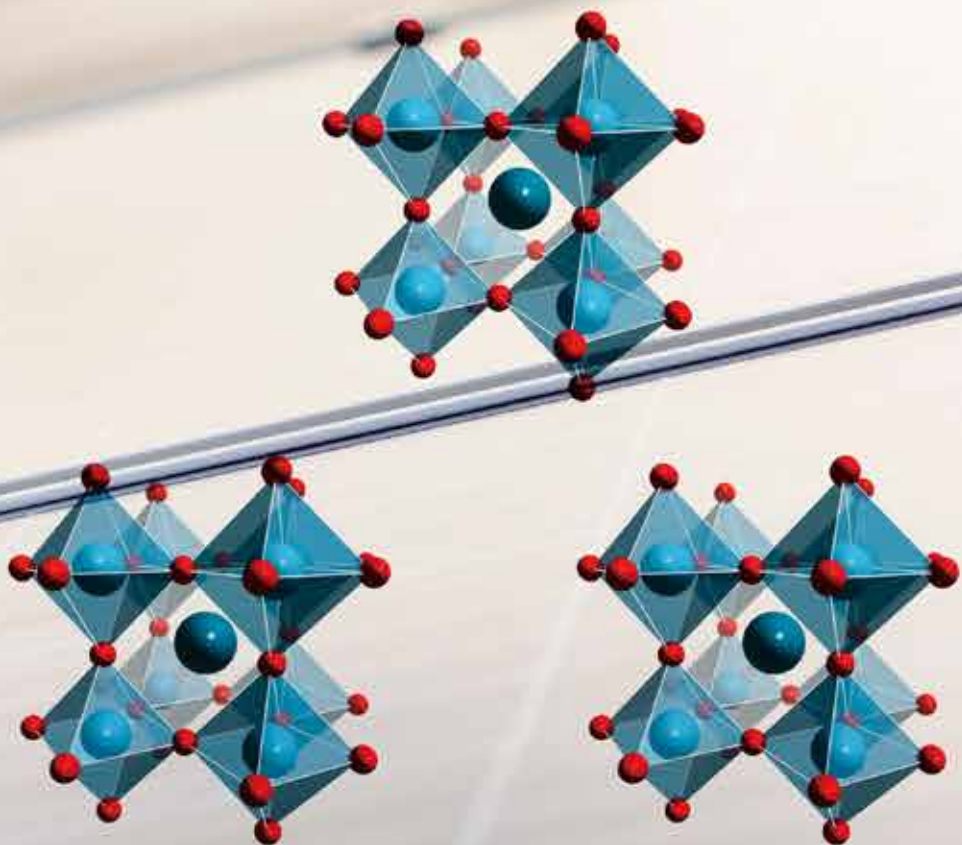


Eversolar®



Eversolar® Series

**High Barrier UV-curing Encapsulants for
Next-Generation Solar Cells: PSC & OPV**

How to Test & Apply Eversolar® Encapsulants?

Full Sealing



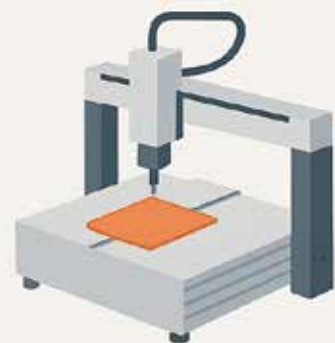
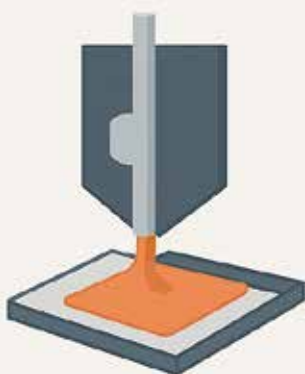
Eversolar®
UV-curing Sealants



Frame Sealing

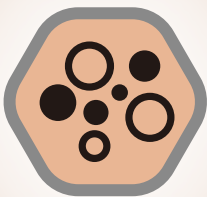


Coating process: Slot-die, Screen-Printing, Dispensing or similar method.

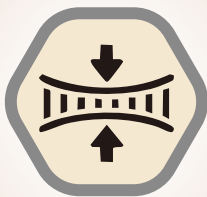


Interested? Contact us for further discussion, and we will prepare the most suitable sample for your testing. We look forward to collaborating with you.

Why Choose Eversolar® for Next-Generation Solar Cells: PSC & OPV



Chemically Inert



Flexible & Elastic



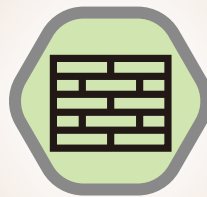
Low WVTR



Yellowing-resistant



**Strong Multi-surface
Adhesion**

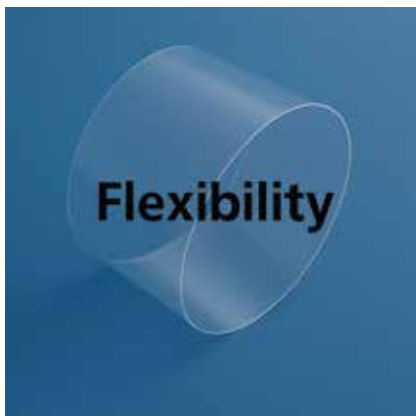


Full & Frame Sealing



Solvent-free, VOC-free

Features of Eversolar® Encapsulants



Flexible substrates adhesion



Water-vapor blocking for
devices



High transmittance in visible
light region



Summary of Eversolar® AB Series Characteristics

Specification	AB-302	AB-302c	AB-341	AB-341k	AB-402
Appearance	Transparent liquid		Gray paste		Clear liquid
Appearance after curing	Transparent		Gray opaque		Transparent
Viscosity (cps) @25°C	2,500 ± 500	5,000 ± 1,000	70,000 ± 10,000	240,000 ± 50,000	2,200 ± 500
Tensile strength (glass/glass)	≥ 5 MPa	≥ 3 MPa		≥ 4 MPa	≥ 5 MPa
T-peeling force (PET/PET)	> 5 N/inch		> 1.5 N/inch		-
UV curing condition (LED 365/405 nm)	6~9 J/cm ²				
WVTR (40°C/90%RH)	≤ 0.8 g·mm/m ² ·day		~ 10 ⁻² g·mm/m ² ·day	~ 10 ⁻³ g·mm/m ² ·day	~3 g·mm/m ² ·24hrs
OTR (23°C/0%RH)	~ 240 cc/m ² ·day		~ 180 cc/m ² ·day		< 0.5 cc/m ² ·day

Eversolar® Anti-Yellowing Test

Test Condition

- UVA-340nm / 60°C / 0.86 W/m²/nm
- Test time: 500 hours
- ※ Standard Specification IEC 61345

Test Result

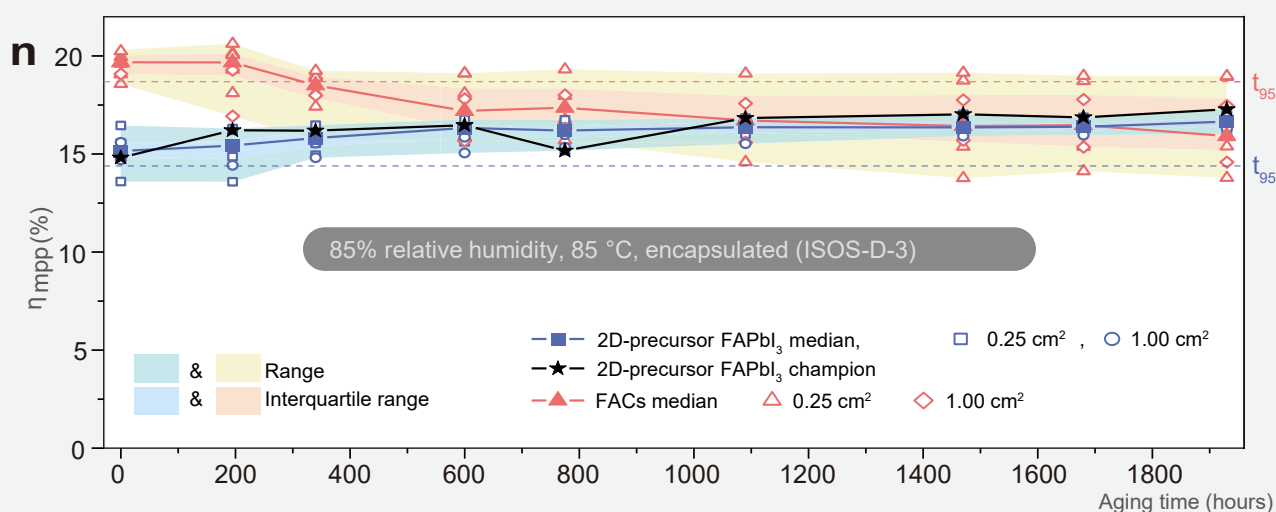


Reference $\Delta YI +17.4$

AB series $\Delta YI < 5.0$

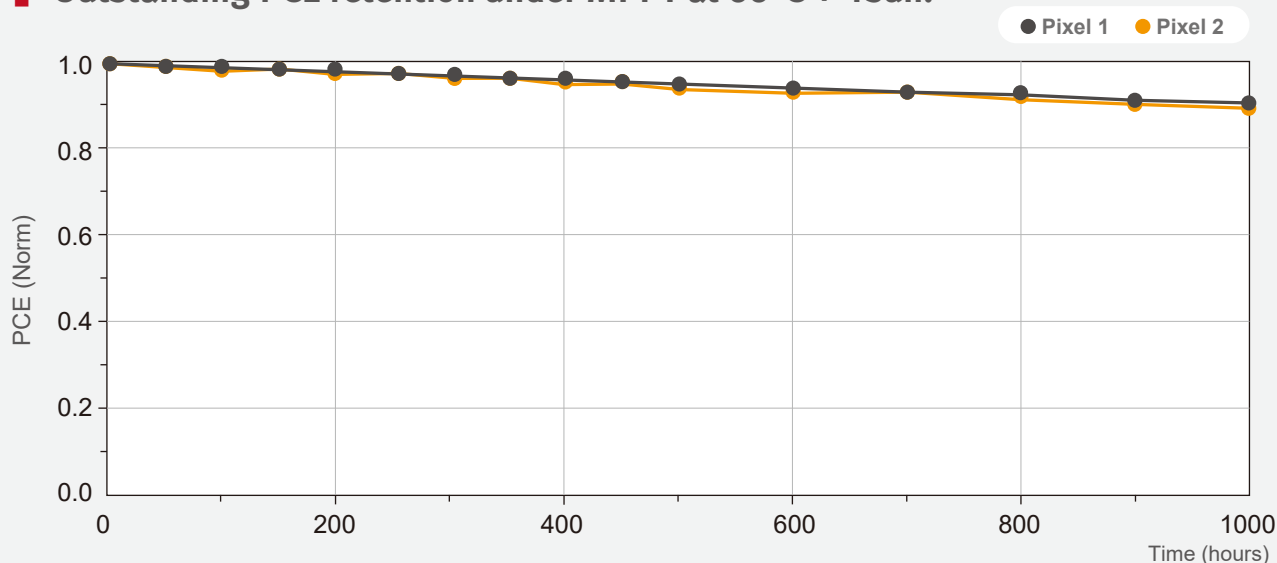
Eversolar® passes various standard aging tests, enhancing cell reliability.

Outstanding PCE retention under 85°C / 85% RH damp heat test.



Source: Gallant et al., Nature Communications 2024, 15, 3715. Licensed under CC BY 4.0.
DOI: 10.1038/s41467-024-54113-4

Outstanding PCE retention under MPPT at 55°C + 1sun.



Source: Gomar-Fernández et al., EES Solar, 2025
DOI: 10.1039/D5EL00145E



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