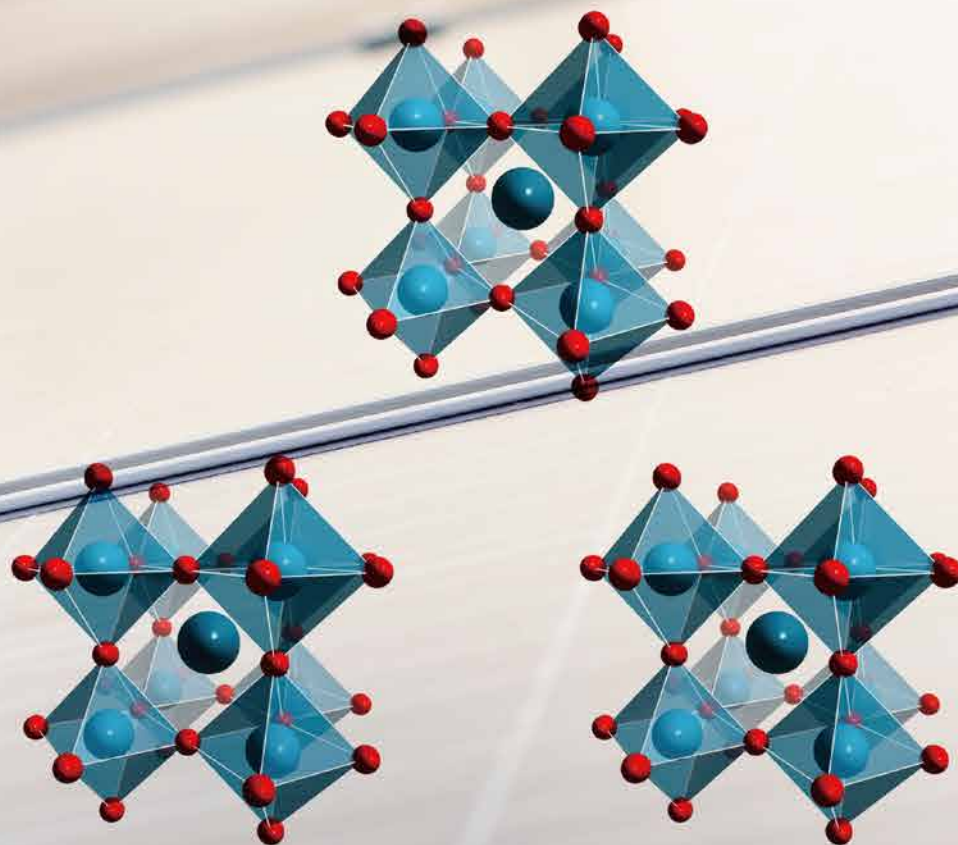


Eversolar®



Eversolar® Series

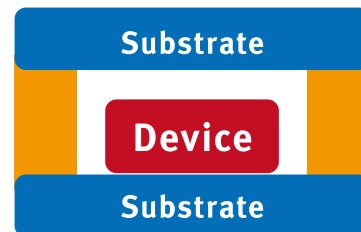
**High Barrier UV-curing Encapsulants for
Next-Generation Solar Cells: PSC & OPV**

How to Test & Apply Eversolar® Encapsulants?

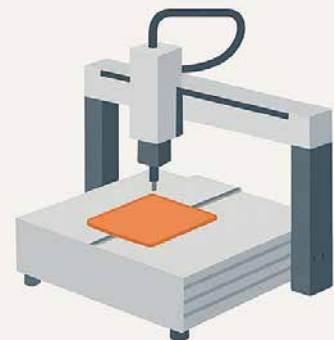
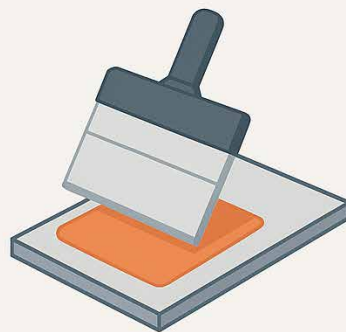
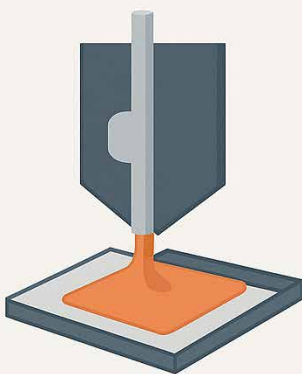
Full Sealing



Frame Sealing

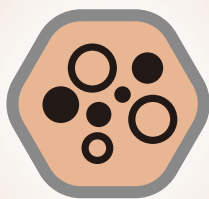


■ Coating process: Slot-die, Screen-Printing, Dispensing or similar method.

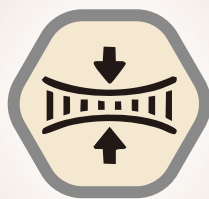


Interested? Contact us for further discussion, and we will prepare the most suitable sample for your testing. We look forward to collaborating with you.

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



Chemically Inert



Flexible & Elastic



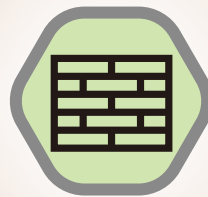
Low WVTR



Yellowing-resistant



Strong Multi-surface
Adhesion

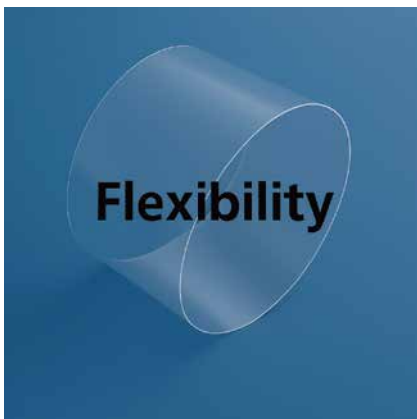


Full & Frame Sealing



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

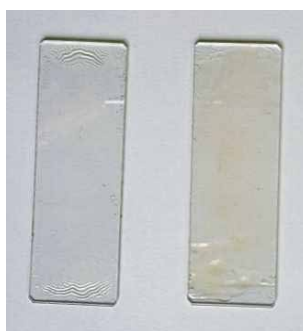
Specification	AB-302	AB-302c	AB-313	AB-341
Appearance	Transparent liquid		Transparent paste	Gray paste
Appearance after curing	Transparent			Gray opaque
Viscosity(cps)@25°C	2,500 ± 500	5,000 ± 1,000	38,000 ± 8,000	45,000 ± 8,000
Tensile strength (glass/glass)	≥ 5 MPa	≥ 3 MPa	≥ 5 MPa	≥ 3 MPa
T-peeling 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@200μm)	≤ 4 g/m ² .day		≤ 6 g/m ² .day	≤ 10 ⁻² g/m ² .day

Eversolar® Anti-Yellowing Test

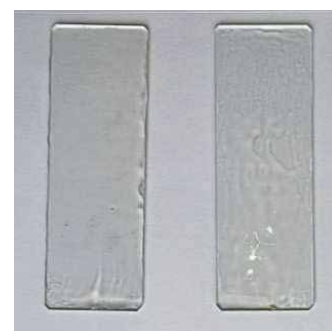
Test Condition

- UVA-340nm / 60°C / 0.86W/cm²
- Test time: 500 hours
- ※ Standard Specification IEC 61345

Test Result



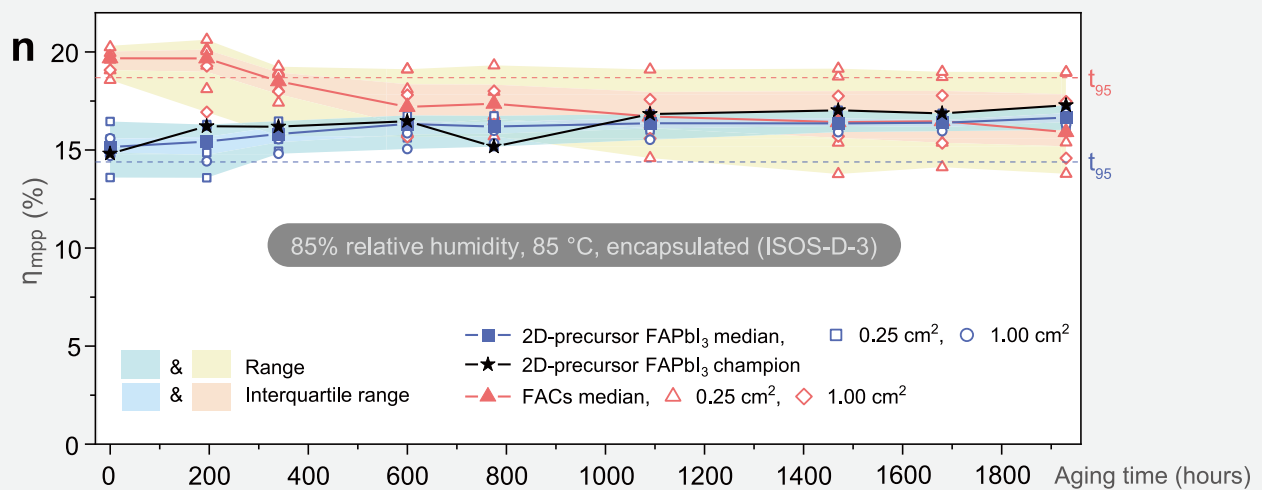
Reference $\Delta YI +17.4$



AB series $\Delta YI < 5.0$

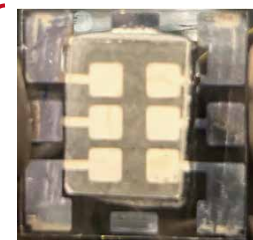
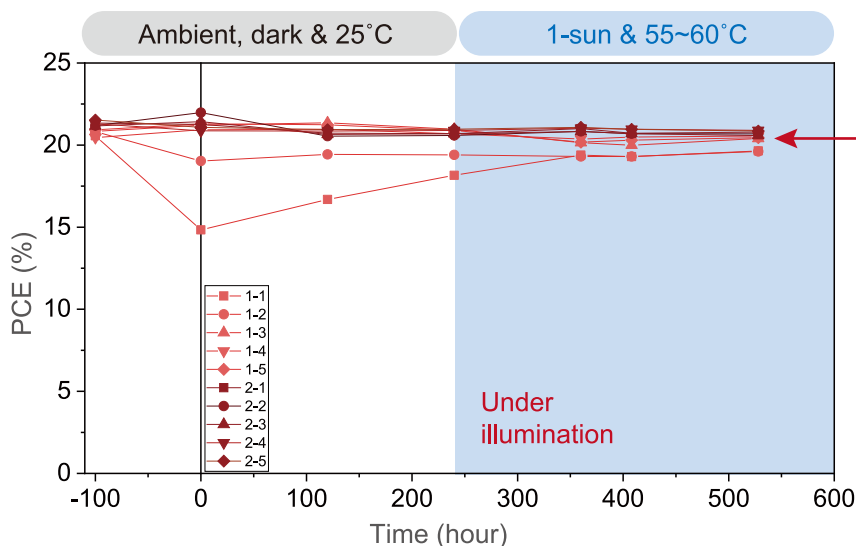
Eversolar® passes various standard aging tests, enhancing cell reliability.

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 1- sun illumination at 55~60°C.





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