

X Link®

Non-destructive quality assessment of PV module encapsulation

Applications

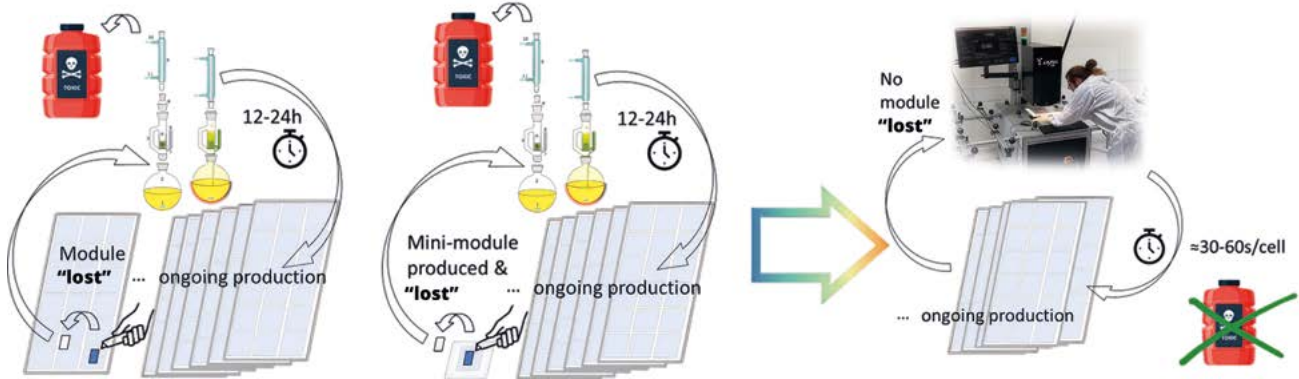
- › Non-destructive measurement of the degree of cross-linking of encapsulant
- › Stand-alone for full module mapping
- › In-line for fixed locations for high volume testing
- › Application to actual module for glass/backsheet modules
- › Application to twin mini-modules for glass/glass
- › Incoming goods inspection for large PV plant installations

Features

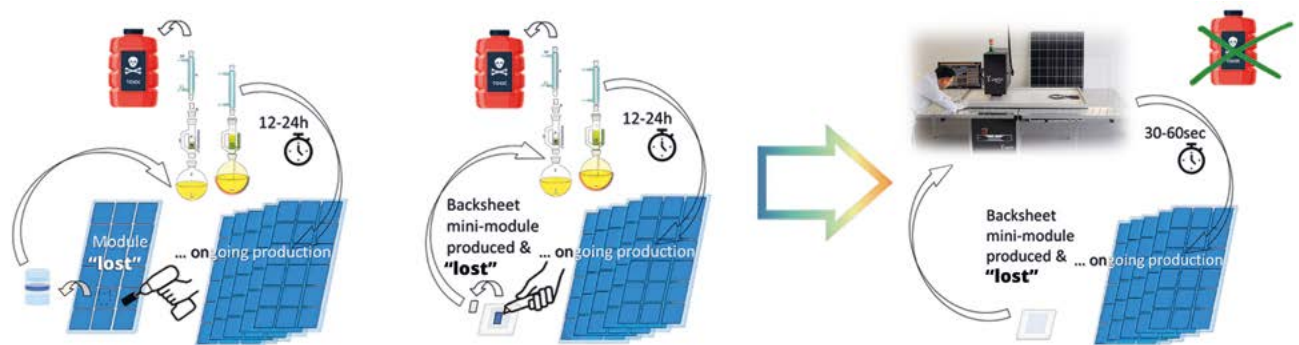
- › Works for all cross-linking encapsulants incl. EVA and POE
- › No chemical waste
- › Measurement times as fast as 1 min enabling full module mapping
- › No operator impact
- › IEC compliance
- › Statistical homogeneity assessment
- › Calibration to Soxhlet results for gel-content calculation



X Link® for glass / glass modules:



X Link® for backsheet modules:



Soxhlet extraction

- Destructive
- Feedback time >10h
- Local testing (1-5 locations/module)
- Chemical lab needed
- Chemicals need to be disposed
- Result depends on operator and choice of standard

X Link® testing

- Non-destructive
- Feedback time >1min
- Full mapping possible
- No chemical lab needed
- No chemicals need to be disposed
- No operator impact
- IEC-compliant method

