

Tues., Feb. 26, 10:45 Discussion notes:

If the mechanical properties of the parts of the module that are and are not delaminated do not change after stress is applied, do the ethylene vinyl acetate (EVA) mechanical properties change?

For temperatures > 60°C, the elastic modulus of the EVA changed because of crosslinking. Below 60°C, there was no change.

Is the glass/glass package inherently more robust?

An example of how a glass/glass package might be less robust would be if trapping acetic acid inside caused more problems than it solved.

Degradation of power at standard test conditions (STC) may be slower than degradation of the power at other use conditions.

We need to look at stresses applied by system (like system voltage).

What can be said about correlations between accelerated test results and field results? Thermal cycling appears to correlate well, whereas prolonged damp heat does not correlate as well. But damp heat at 1000 to 1500 hours (h) causes failures that *are* seen in the field, so the conventional damp heat test appears to be providing value.