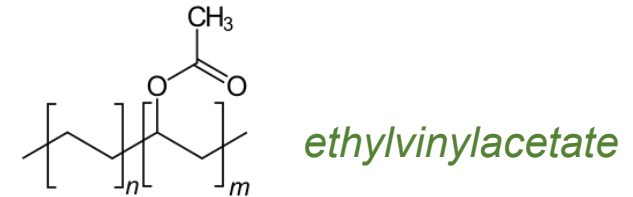


Locally resolved characterization of lamination polymers for solar cells

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EVA degrades under solar radiation → acetic acid

+ 2 types of additives for protection

new degradation test: IEC 62788-7-2-A3

2000 h @ 65 °C, 20 % r.h., UV 81 W/m²

glass-EVA-PTFE-glass

with additive in one half of the laminate:

diffusion of additive? YES

(PTFE for separation after exposure)

mask A1...C8

for extracting locally resolved

→ DSC, TGA, FTIR

→ first yellowing after 1250 h!

