

Supplementary material

peak area a.u.

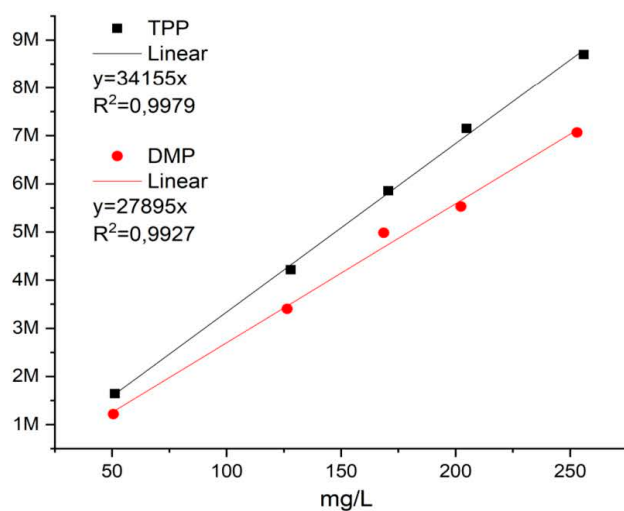


Figure S1. Calibration curve for GC-MS analysis of the additives DMP and TPP.

peak area ratio ACP/IS

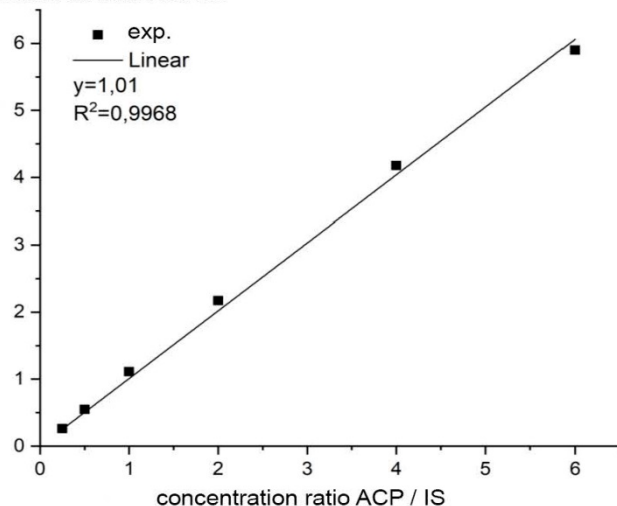


Figure S2. Calibration curve for GC-MS analysis of the degree of substitution. ACP = acetyl pyrrolidine, IS = internal standard (N-methyl-2-pyrrolidone)

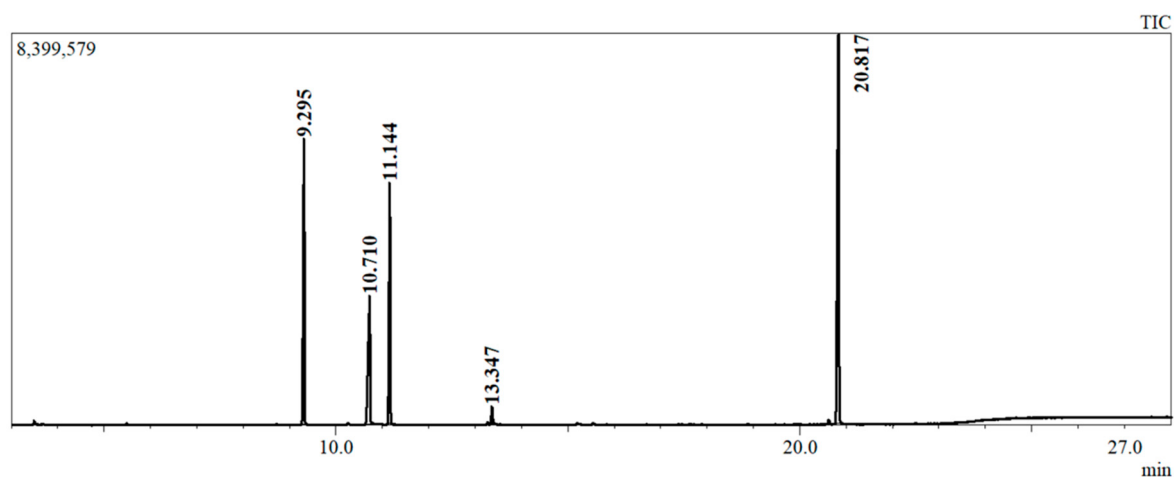


Figure S3. Total ion chromatogram (TIC) of the methanol extract of naturally aged CA sheet material.

Additives: DMP (9.295 min), MBSA (10.710 min), DEP (11.144 min), TCEP (13.347 min), TPP (20.817 min)

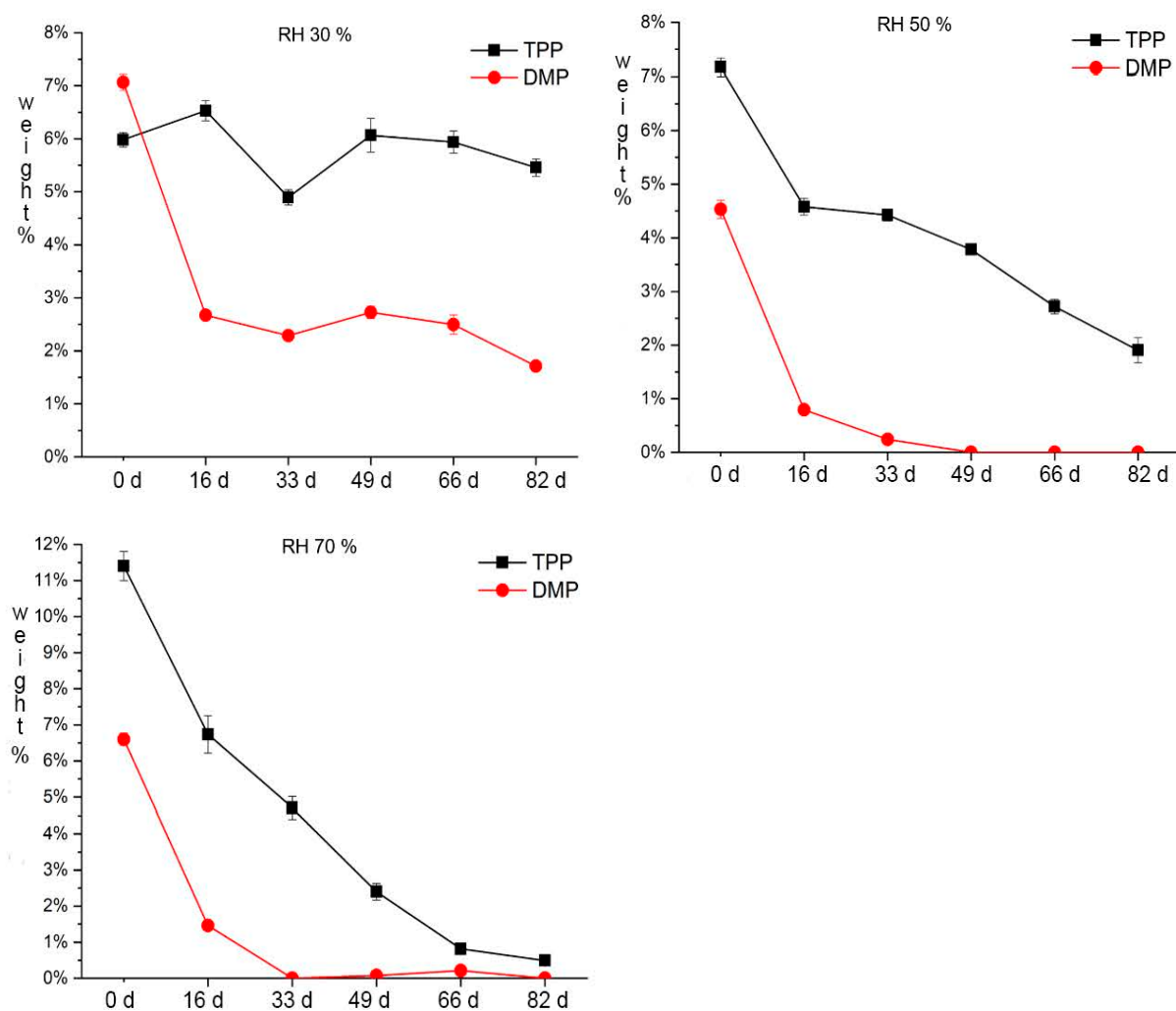


Figure S4. Quantitative additive content in the CA test samples during artificial aging at 70 °C and different humidity levels: a) 30 %RH b) 50 %RH c) 70 %RH