Supporting information for

Controlling Self-Patterning of Acrylate Films by Photopolymerization

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Figure S1. Polymerization profile for acrylate monomers as a function of initiator concentration (0.4 or 2 mol%) with 4.5 mol% of crosslinker.



Figure S2. Polymerization profile for methacrylate monomers with 2 mol% initiator and 4.5 mol% of crosslinker.



Figure S3. Temperature profile for *tert*-butyl acrylate photopolymerization with 2 mol% of initiator, 4.5 mol% of crosslinker and a thickness of about 0.4 mm.



Figure S4. Influence of UVA intensity with a formulation of PEA (initiator 0.4 mol%, crosslinker 2 mol%, irradiation 60 s). Scale 200 μ m.



Figure S5. Dependence of wrinkle wavelength with the crosslinker concentration (monomer PEA, initiator 0.4 mol%, film thickness 1 mm, UV irradiation 30 s).



Figure S6. Linear dependence of wrinkle wavelength with the PEA film thickness (initiator 0.4 mol%, crosslinker 2 mol%, UV irradiation 30 s).



Figure S7. Pictures of PEA films obtained by adding dodecanethiol (transfer agent) or decanol (reference) with 2 mol% or without crosslinker (initiator 0.4 mol%, film thickness 1 mm, UV irradiation 60 s).



Figure S8. Range of crosslinker concentrations that lead to wrinkling for different acrylate monomers (initiator 2 mol%, film thickness 0.4 mm, irradiation 60 s).



Figure S9. Morphologies of acrylate films for various crosslinker concentrations (initiator 2 mol%, film thickness 0.4 mm, UV irradiation 60 s). The black bars represent the crosslinker range leading to patterns. Scale 100 μ m.