Figure S1 | (A, B) Absorption spectra and (C–F) absorption difference spectra of (A, C, E) a single enol-1 crystal, and (B, D, F) a UV-cured resin hybrid film in which enol-1 crystals are aligned. (A–D) UV irradiation (375 nm, 90 mW cm\(^{-2}\)), and then (E, F) visible light irradiation (520 nm, 62 mW cm\(^{-2}\)).
**Figure S2** | Light intensity dependence of maximum bend angle of a UV-cured resin hybrid film (25-mm long × 3.8-mm wide × 136-μm thick) upon UV-LED (365 nm) irradiation for 10 s.

**Figure S3** | Thickness dependence of maximum bend angle of UV-cured resin hybrid films (7.0-mm long × 3.0-mm wide × 126-μm thick), (25-mm long × 3.8-mm wide × 136-μm thick), (7.1-mm long × 3.2-mm wide × 153-μm thick), and (18-mm long × 3.0-mm wide × 238-μm thick) upon UV-LED (365 nm, 180 mW cm⁻²) irradiation for 10 s.
List of Movies

**Movie S1** | Photomechanical bending of a silicone polymer hybrid film (8.6 mm long × 3.7 mm wide × 100 μm thick) upon UV-LED (365 nm, 180 mW cm², spot diameter 8 mm) irradiation for 10 s and subsequent illumination with visible light (530 nm, 10 mW cm²) for 10 s (Realtime).

**Movie S2** | Photomechanical bending of a UV-cured resin hybrid film (7.0 mm long × 3.0 mm wide × 126 μm thick) upon UV-LED (365 nm, 180 mW cm², spot diameter 8 mm) irradiation for 10 s and subsequent illumination with visible light (530 nm, 10 mW cm²) for 10 s (Realtime).