

Supporting Information:

N-Phenylglycine as a Versatile Photoinitiator under Near UV LED

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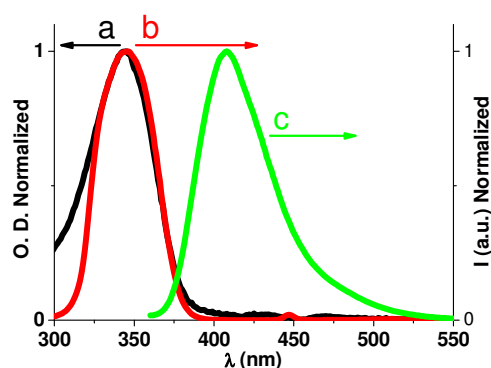


Figure S1. UV-vis absorption spectrum (curve a), fluorescence excitation spectrum (curve b), and fluorescence emission spectrum (curve c) of NPG in acetonitrile.

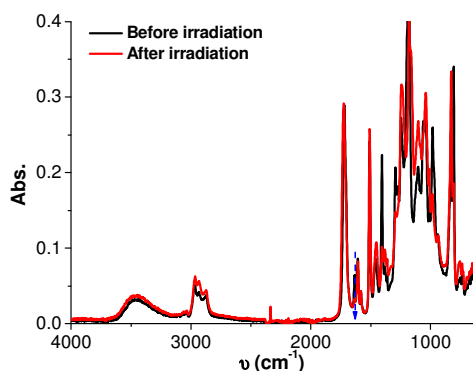


Figure S2. IR spectra recorded before and after the photopolymerization of EB605 in laminate in the presence of NPG/Iod (2%/2%, wt) upon exposure to the UV LED@392 nm (100 mW cm⁻²). The IR band of double bonds of EB605 is observed at ~1635 cm⁻¹.

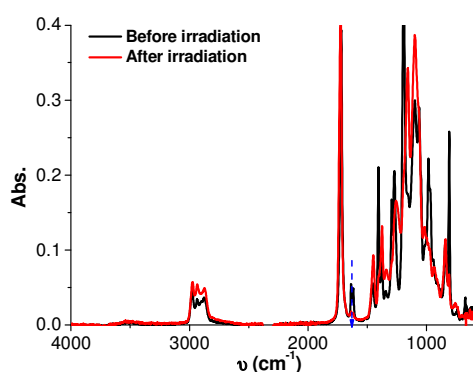


Figure S3. IR spectra recorded before and after the photopolymerization of TPGDA in laminate in the presence of NPG/Iod (0.5%/2%, wt) upon exposure to the UV LED@392 nm (100 mW cm^{-2}). The IR band of double bonds of TPGDA is observed at $\sim 1635 \text{ cm}^{-1}$.

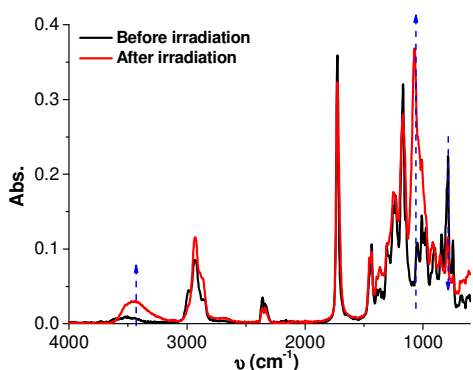


Figure S4. IR spectra recorded before and after the photopolymerization of EPOX under air in the presence of NPG/Iod (0.5%/2%, wt) upon exposure to the UV LED bulb@392 nm (100 mW cm^{-2}). The IR bands of the epoxy, polyether, and hydroxyl group are observed at $\sim 790 \text{ cm}^{-1}$, $\sim 1070 \text{ cm}^{-1}$, and $\sim 3430 \text{ cm}^{-1}$ respectively.

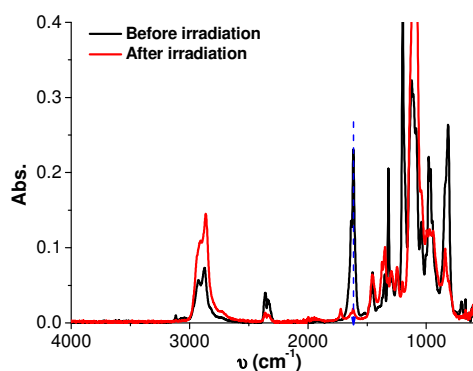


Figure S5. IR spectra recorded before and after the photopolymerization of DVE-3 in laminate in the presence of NPG/Iod (0.5%/2%, wt) upon exposure to the UV LED@392 nm (100 mW cm^{-2}). The IR band of double bonds of DVE-3 is observed at $\sim 1620 \text{ cm}^{-1}$.