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Synthesis and Processing of Near Infrared—Activated Vitrimer Nanocomposite Films Modified with β-hydroxyester Functionalized MWCNTs

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Video S1. Shape recovery of the vitrimer nanocomposite modified with *f*-MWCNTs under IR light irradiation.

Video S2. Qualitative assessment of the strength of a joint formed by the photo-welding of two vitrimer nanocomposite films.

The healing can be improved by placing an acetone drop on the film in order to induce swelling (which enhances the contact between the damaged interfaces), evaporating the acetone at room temperature overnight and heating for 1h at 160 °C.

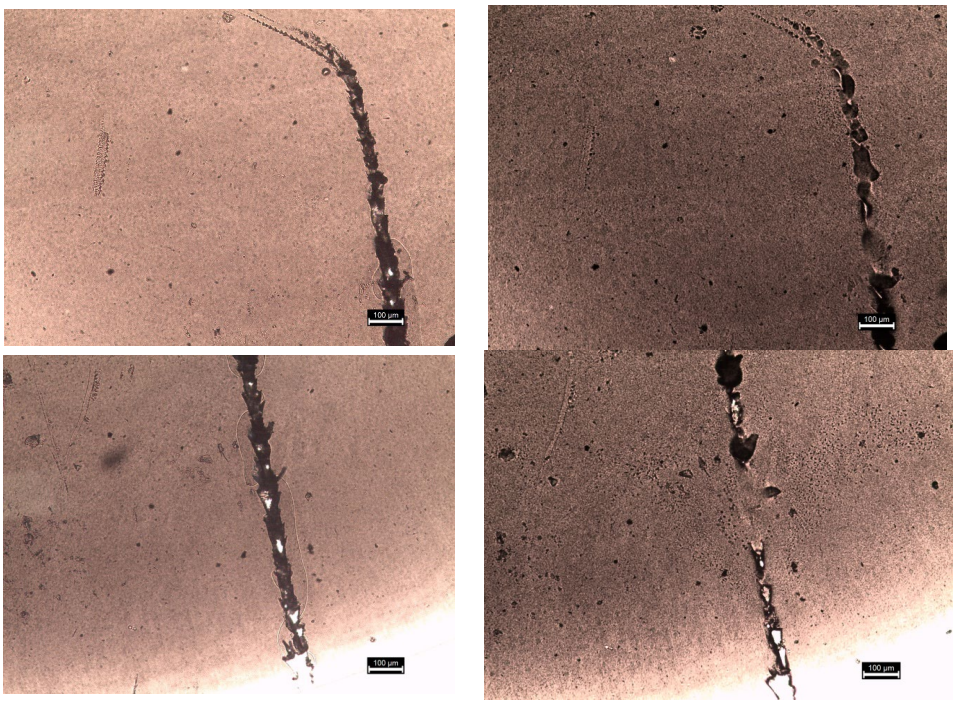

Figure S1. TOM micrographs of the scratch made with a cutter and its healing after 10 min of irradiation (**left column**) and after swelling in acetone and heating in an oven at 160 °C for 1 h (**right column**).