

Supporting information

Lanthanoids goes healing: Lanthanoidic metallopolymers and their scratch closure behavior

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Table of content:

1. DSC curves of the polymers	S2
2. TGA curves of the polymers	S3
3. Animated surface of self-healing experiments	S5

1. DSC curves of the polymers

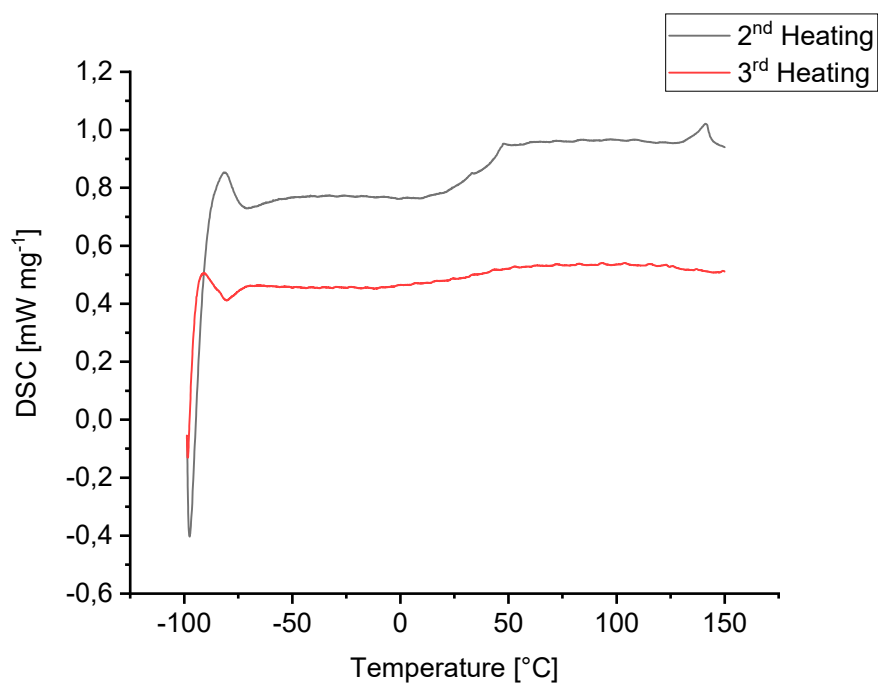


Figure S1: DSC heating cycles of **P2**.

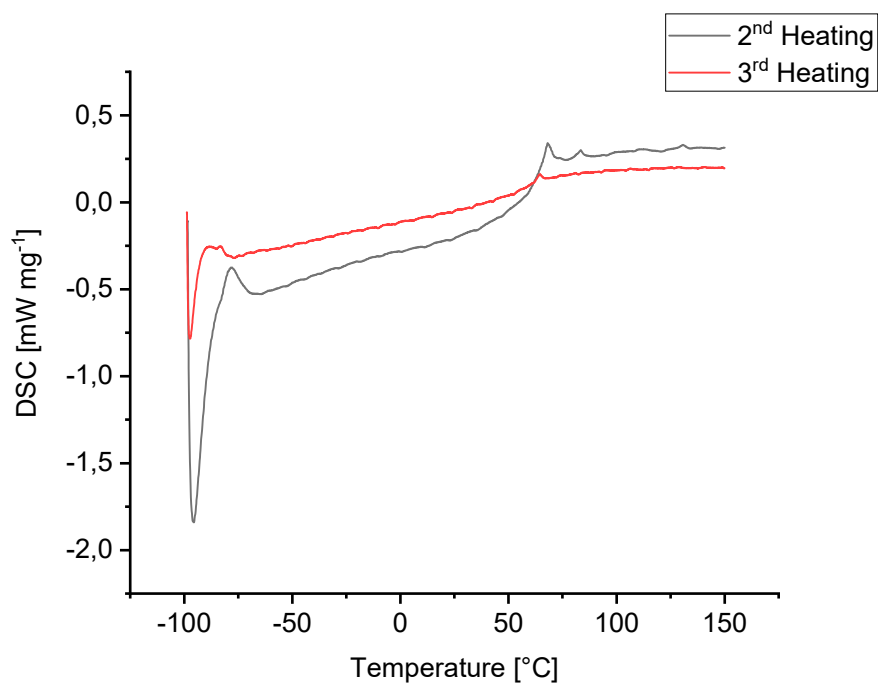


Figure S2: DSC heating cycles of **P3**.

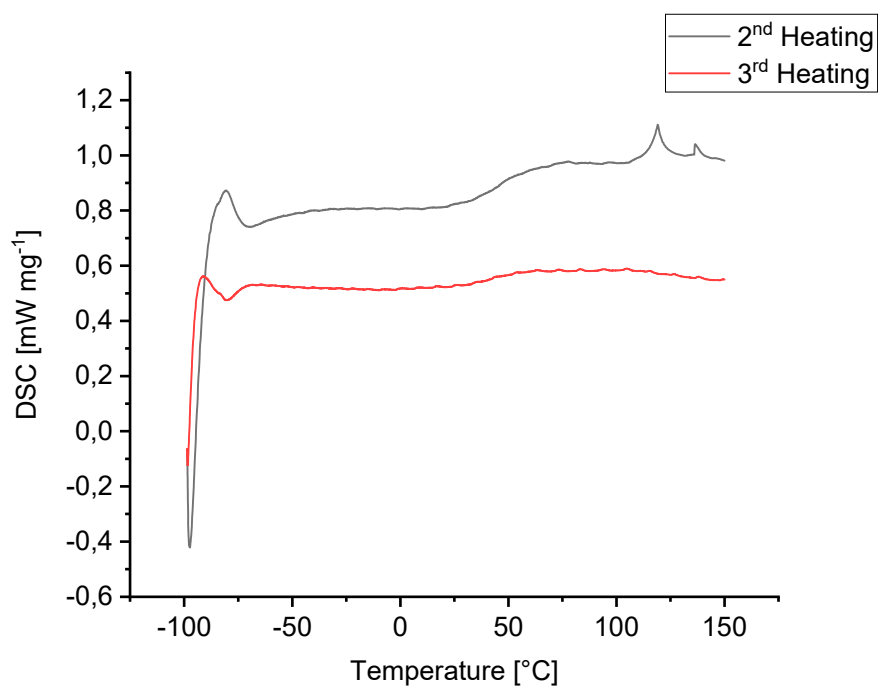


Figure S3: DSC heating cycles of **P4**.

2. TGA curves of the polymers

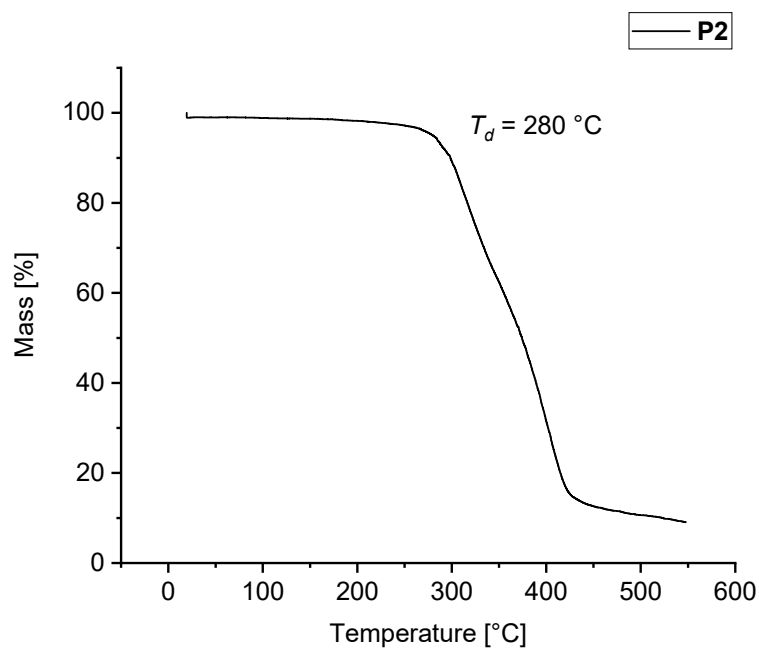


Figure S4: Trace of the TGA measurement of **P2**.

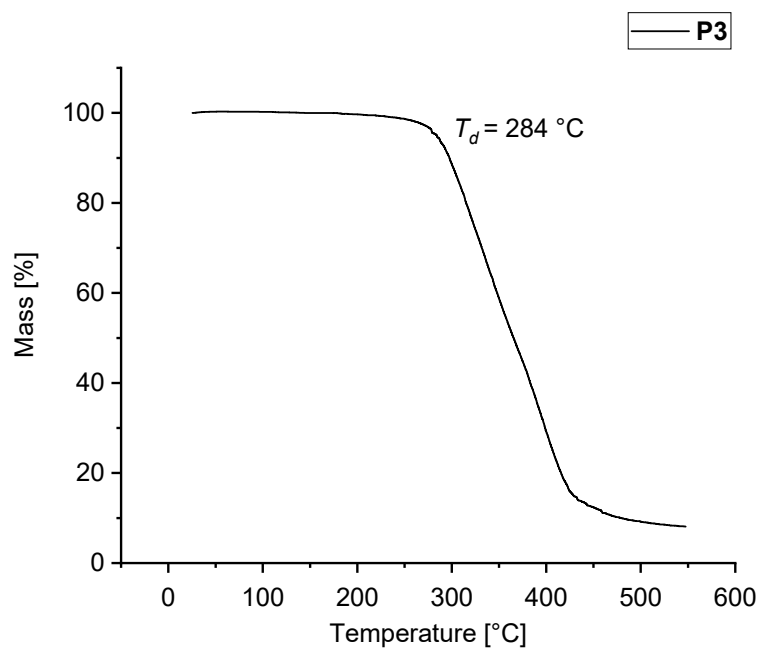


Figure S5: Trace of the TGA measurement of **P3**.

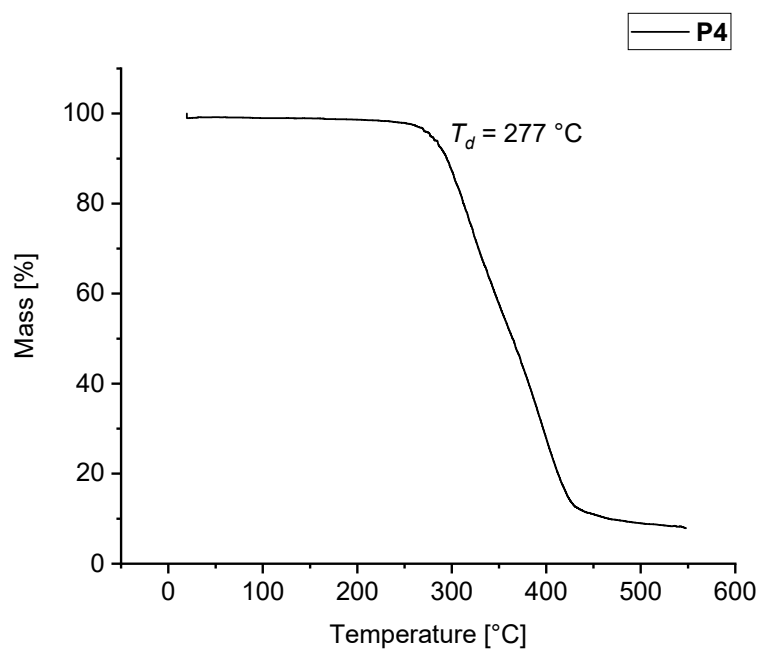


Figure S6: Trace of the TGA measurement of **P4**.

3. Animated surface of self-healing experiments

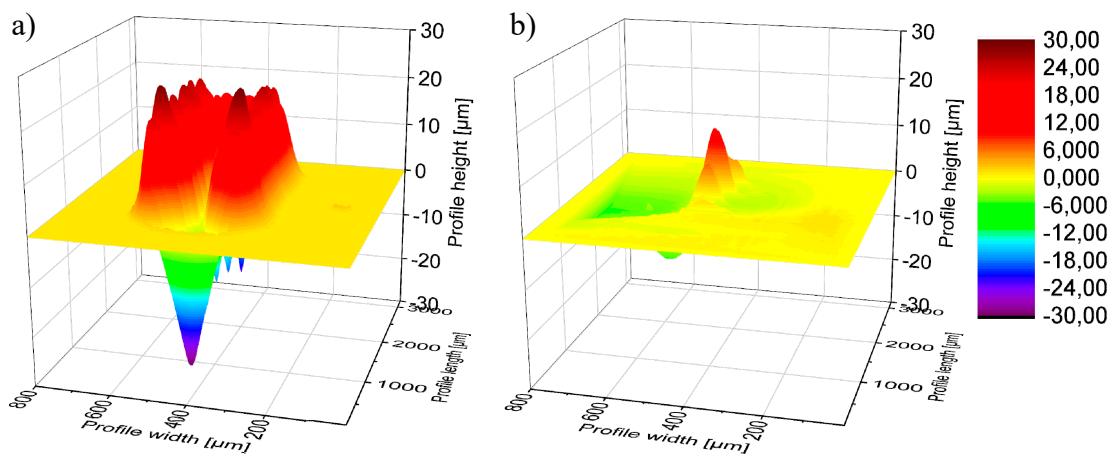


Figure S7: Schematic representation of the surface profile of a) the scratch and b) after 24 h healing at 100 °C (right) of metallopolymer **P2**.

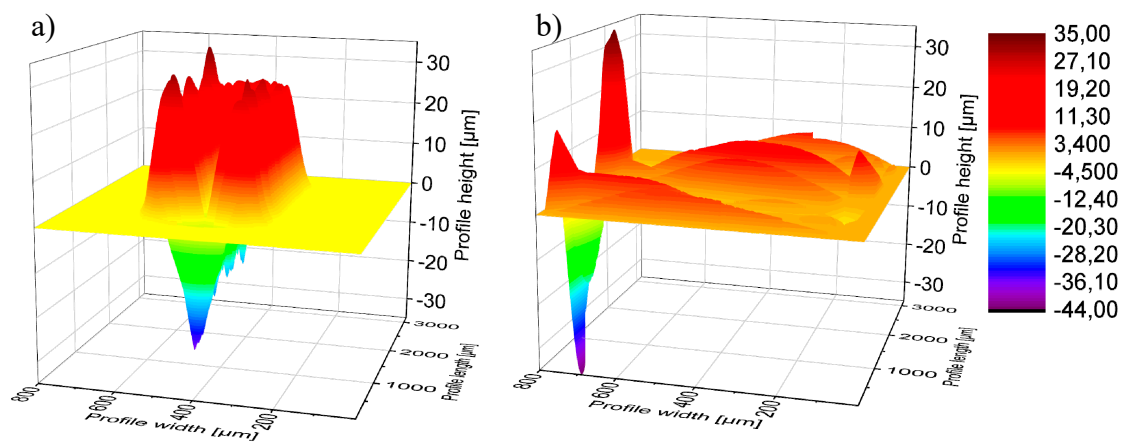


Figure S8: Schematic representation of the surface profile of a) the scratch and b) after 20 h healing at 100 °C of metallopolymer **P3**.