

Sustainable Glycerol-Based Reactive Diluent Alternatives to the Commercial Ethylene Glycol Diacrylate (EGDA) and 2-Hydroxyethyl Methacrylate (HEMA) for Additive Manufacturing

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1. Structural verification of the synthesized compounds

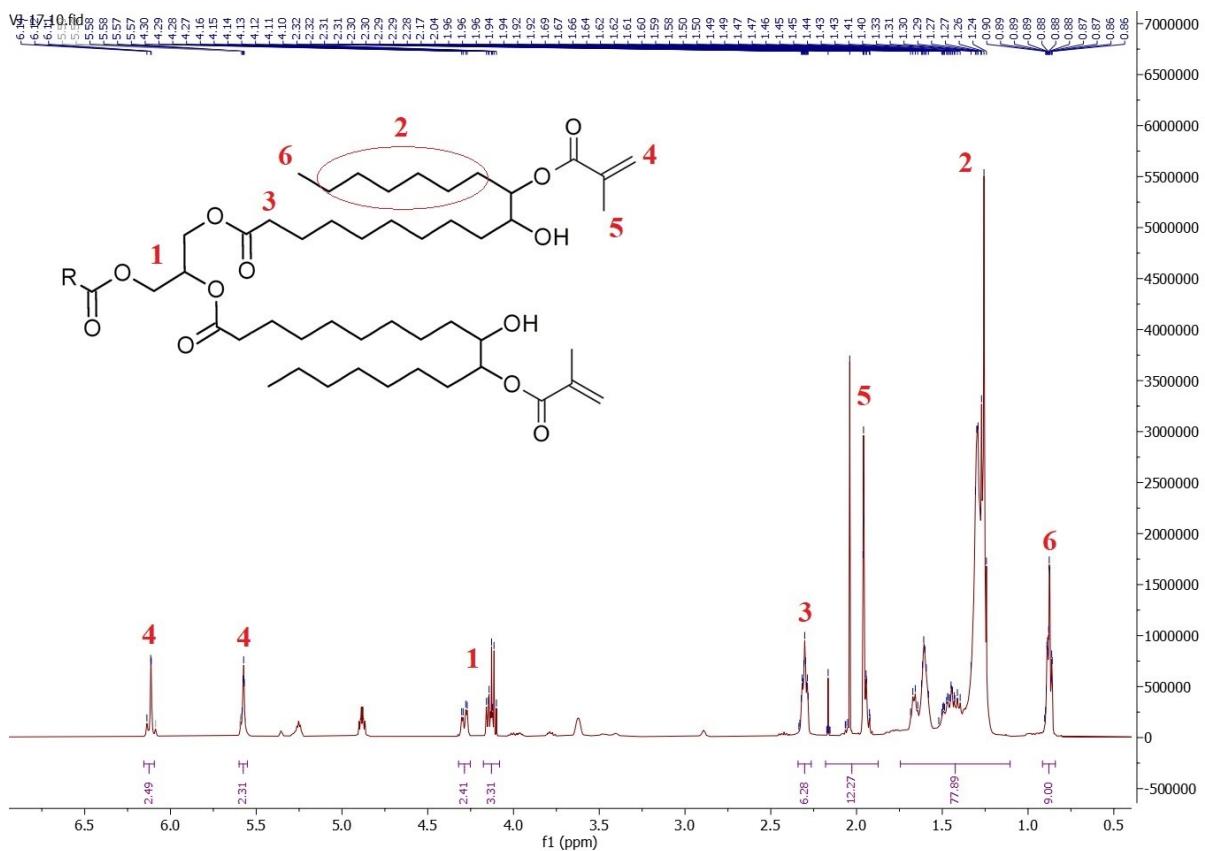


Figure S1. ^1H NMR spectrum of the methacrylated vegetable oil (MO).

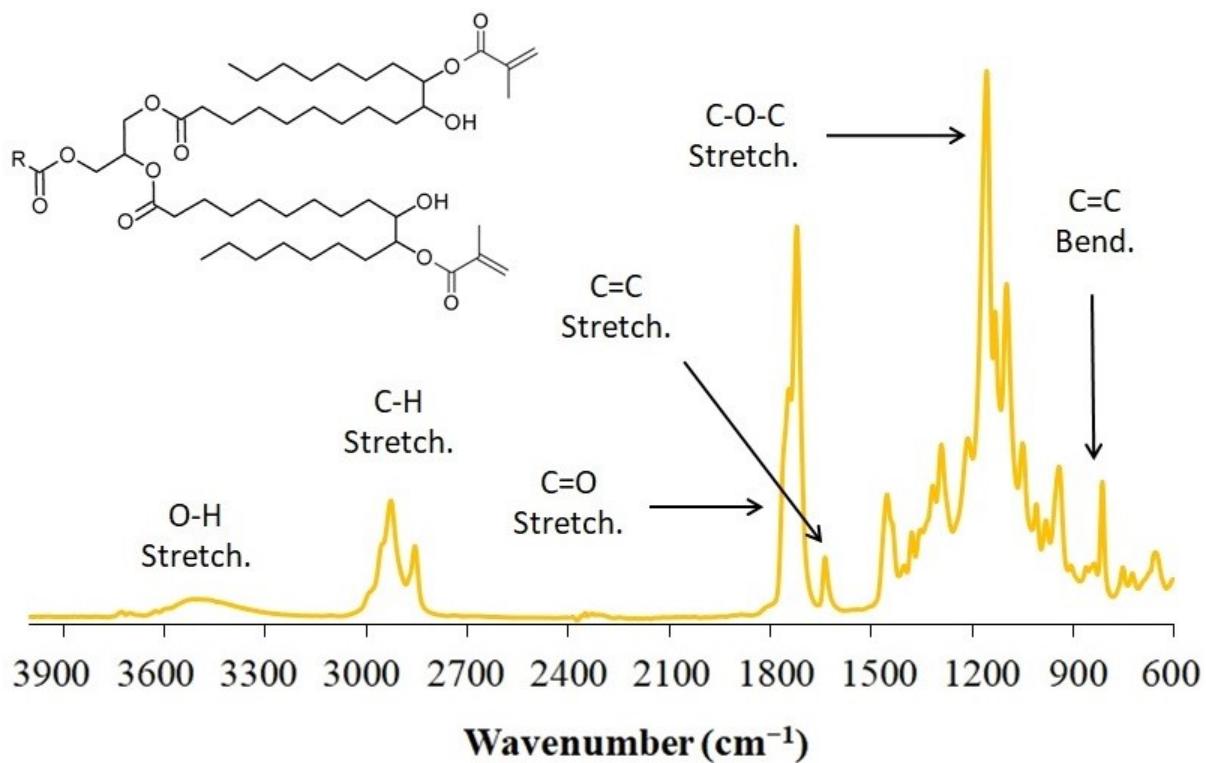


Figure S2. FT-IR spectrum of the methacrylated vegetable oil (MO).

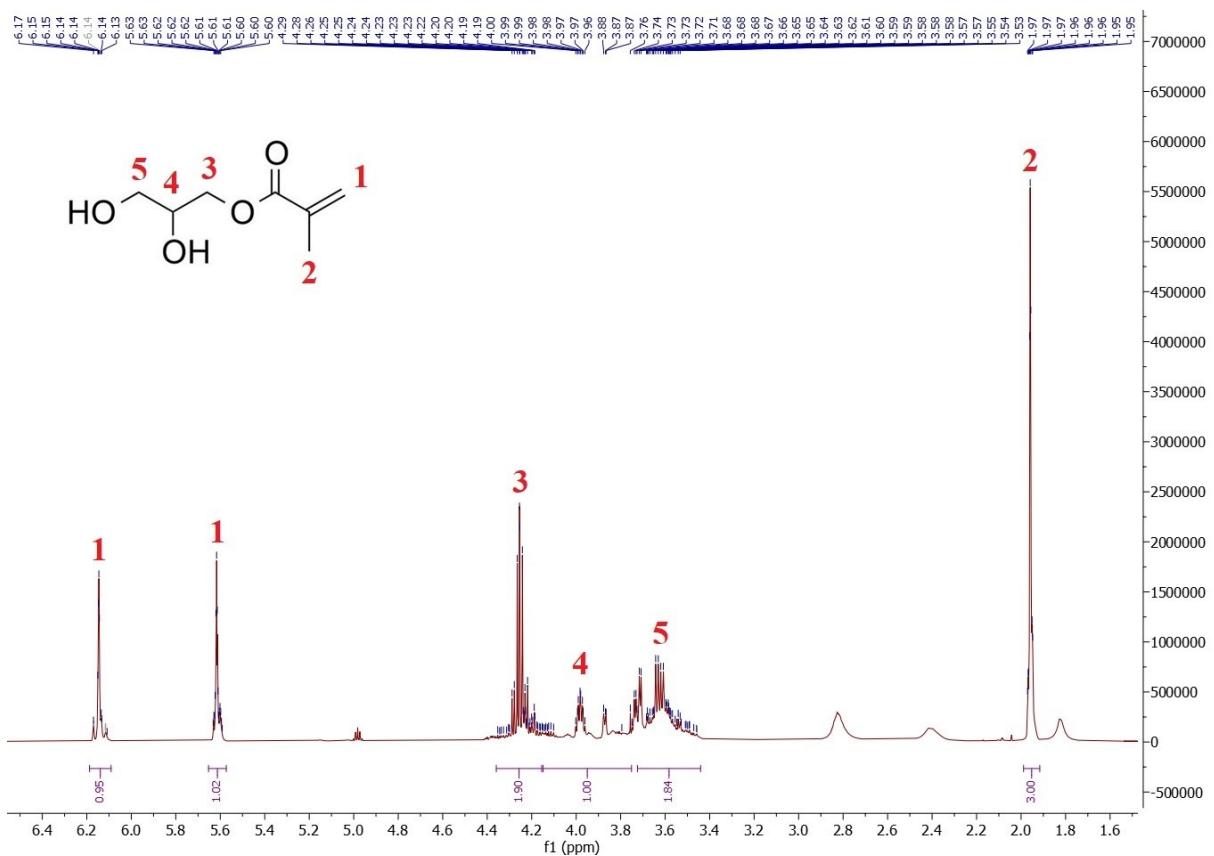


Figure S3. ^1H NMR spectrum of glycerol monomethacrylate (MGLY).

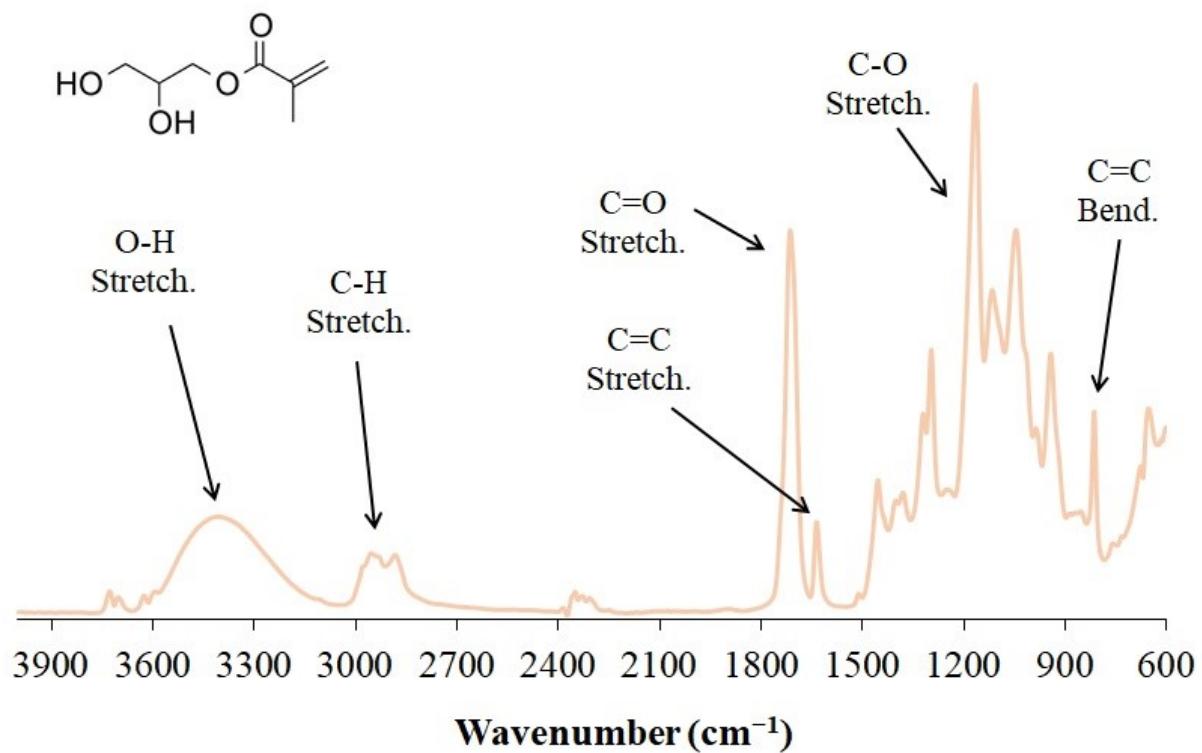


Figure S4. FTIR spectrum of glycerol monomethacrylate (MGLY).

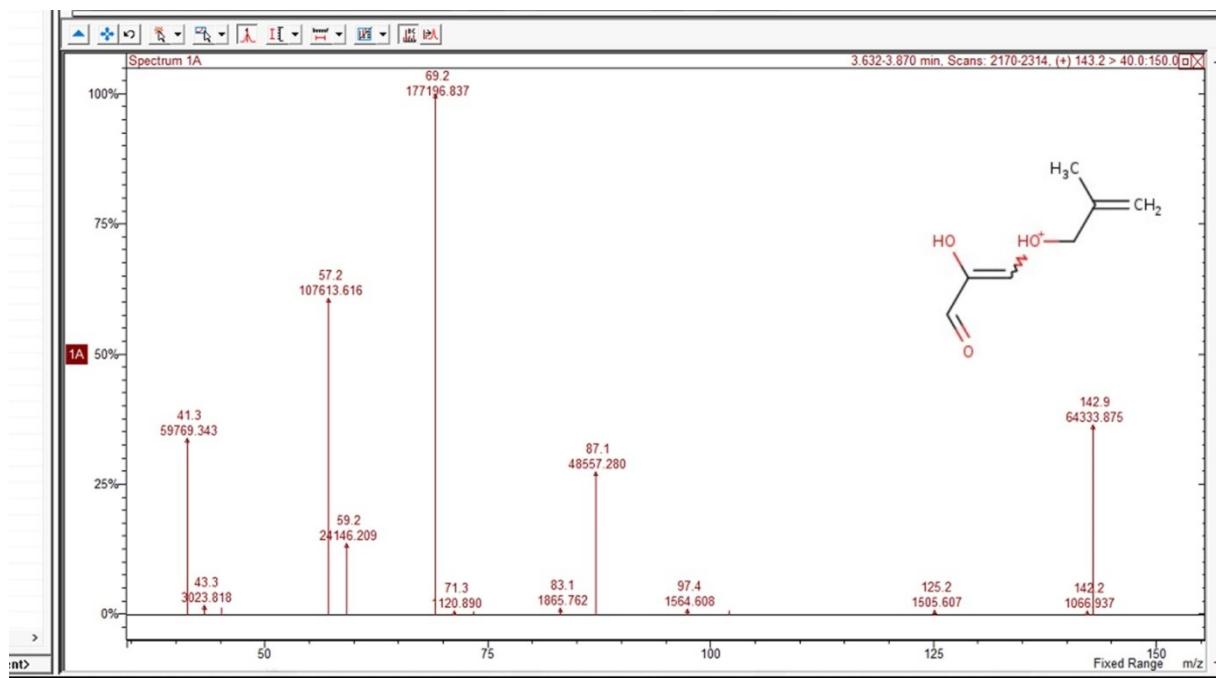


Figure S5. ESI-MS spectrum of glycerol monomethacrylate (MGLY).

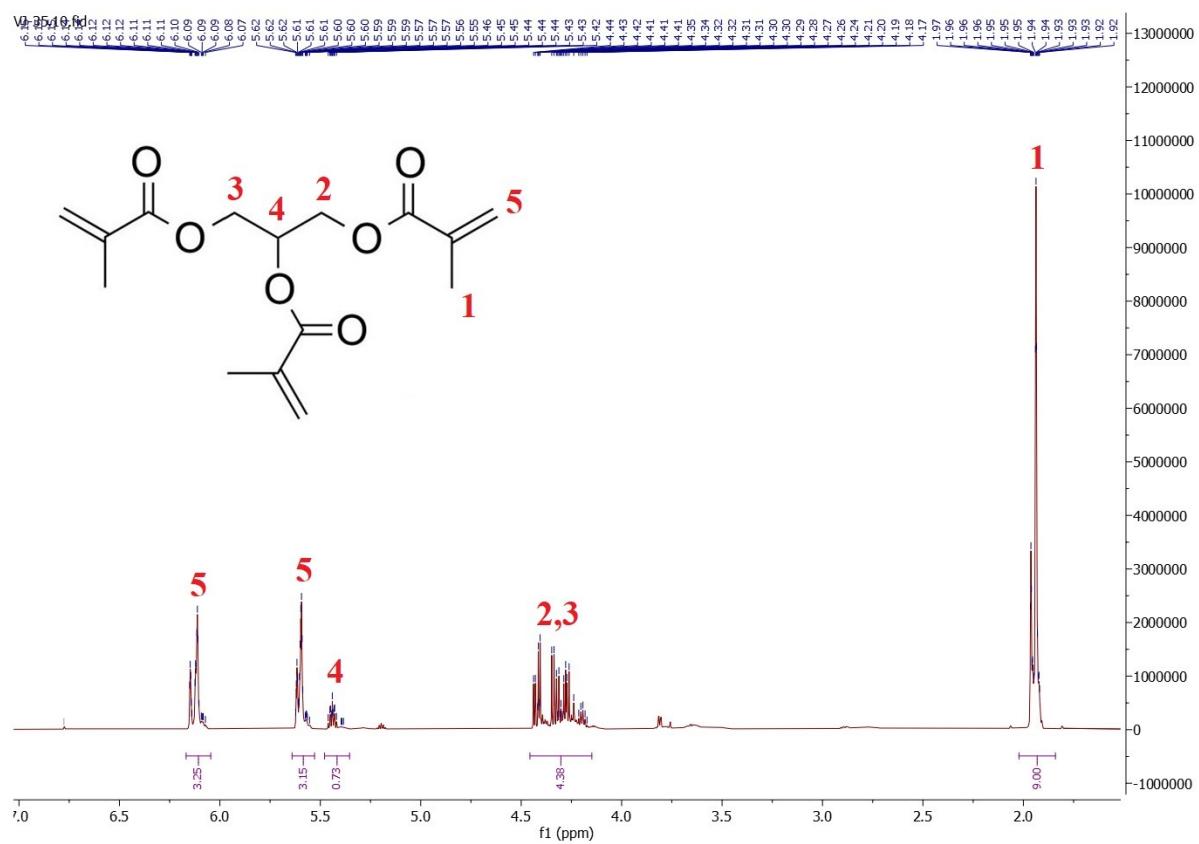


Figure S6. ^1H NMR spectrum of glycerol trimethacrylate (TGLY).

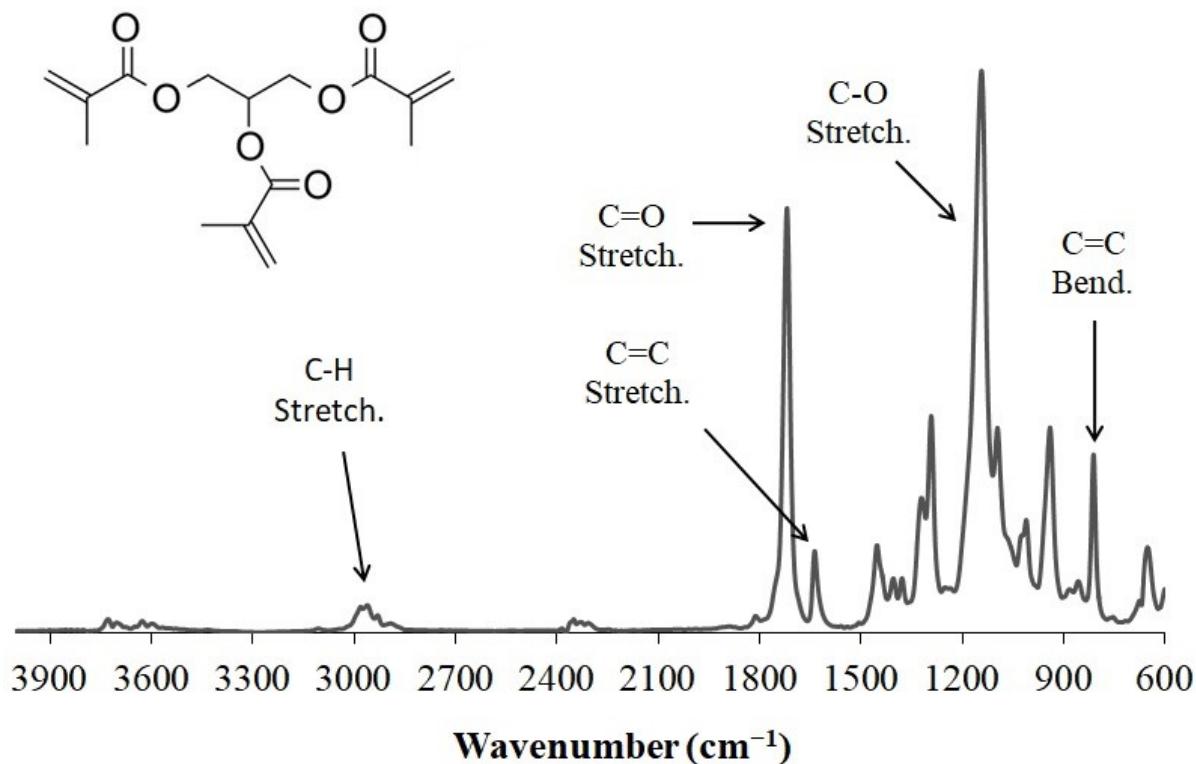


Figure S7. FTIR spectrum of glycerol trimethacrylate (TGLY).

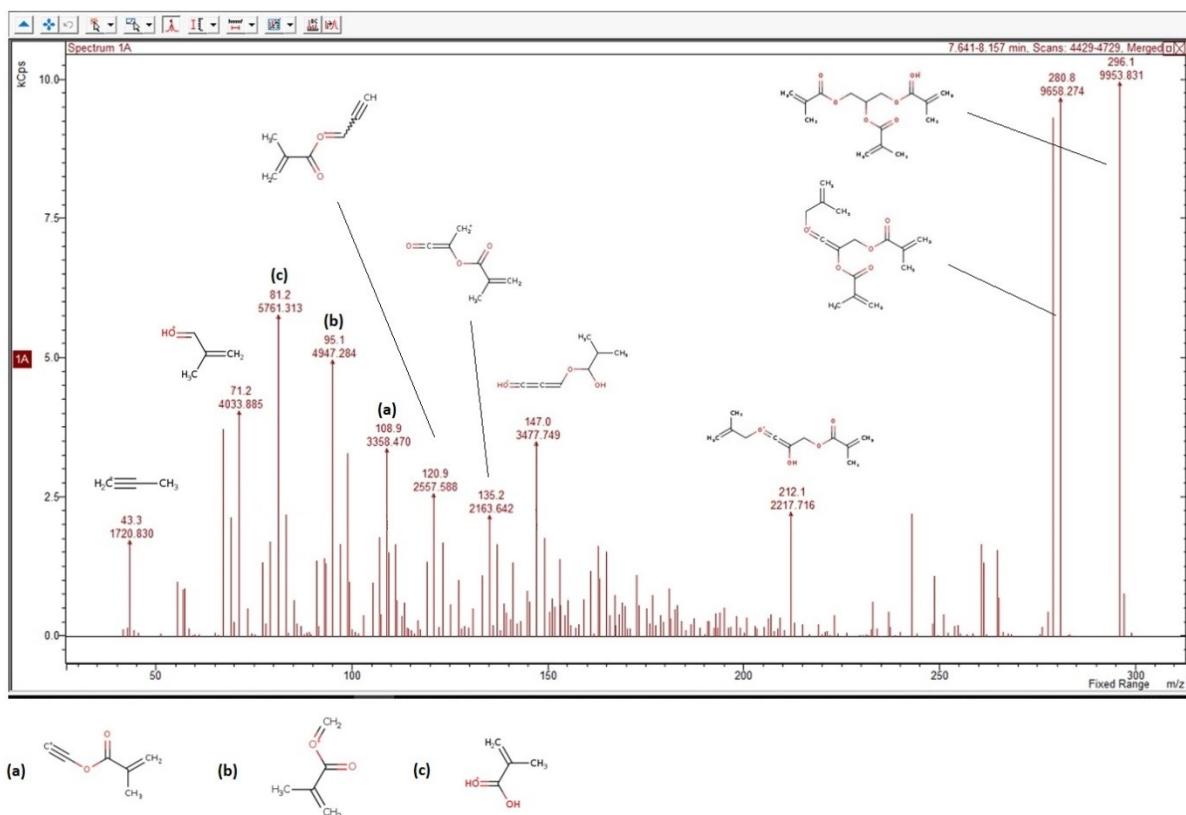


Figure S8. ESI-MS spectrum of glycerol trimethacrylate (TGLY).

2. Thermo-mechanical additional data

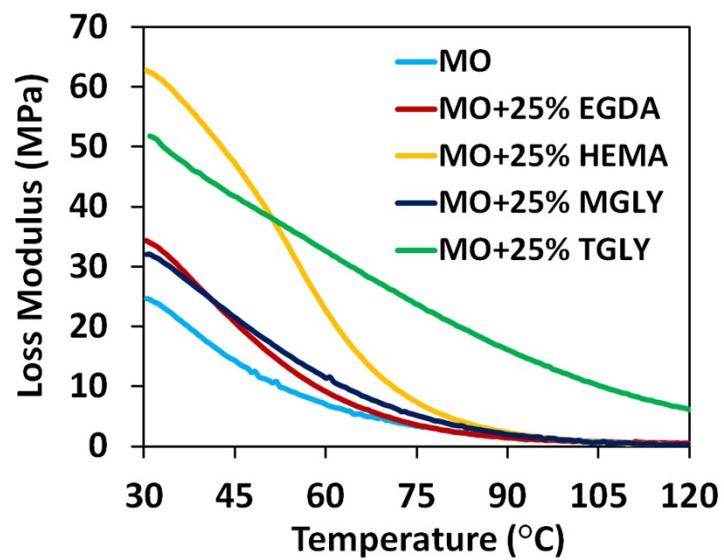


Figure S9. Loss moduli of the investigated 3D printed systems.

3. Thermo-mechanical investigation data

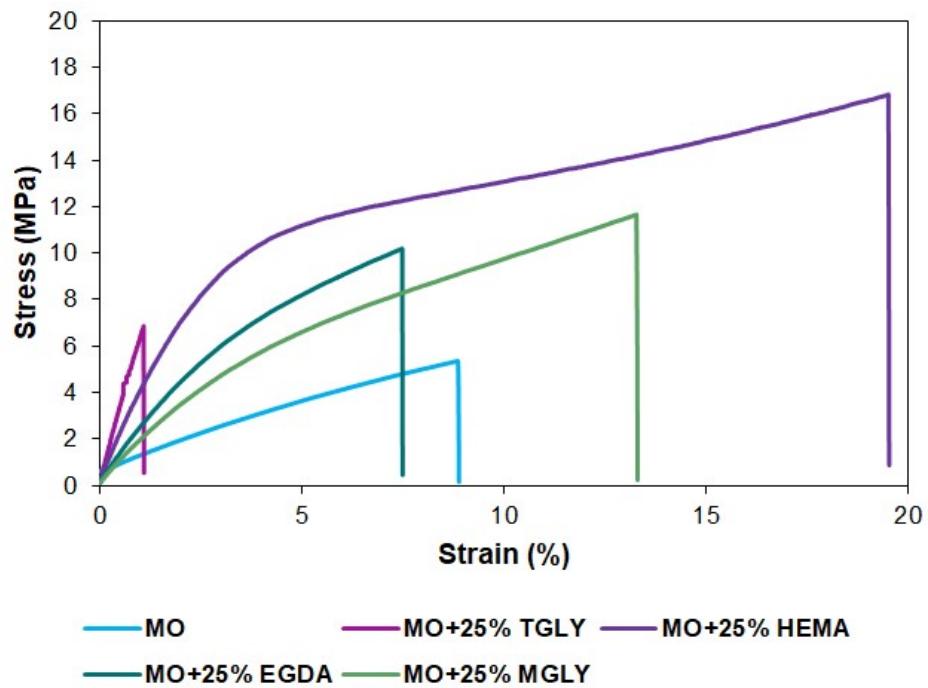


Figure S10. The stress-strain curves of the performed tensile tests.

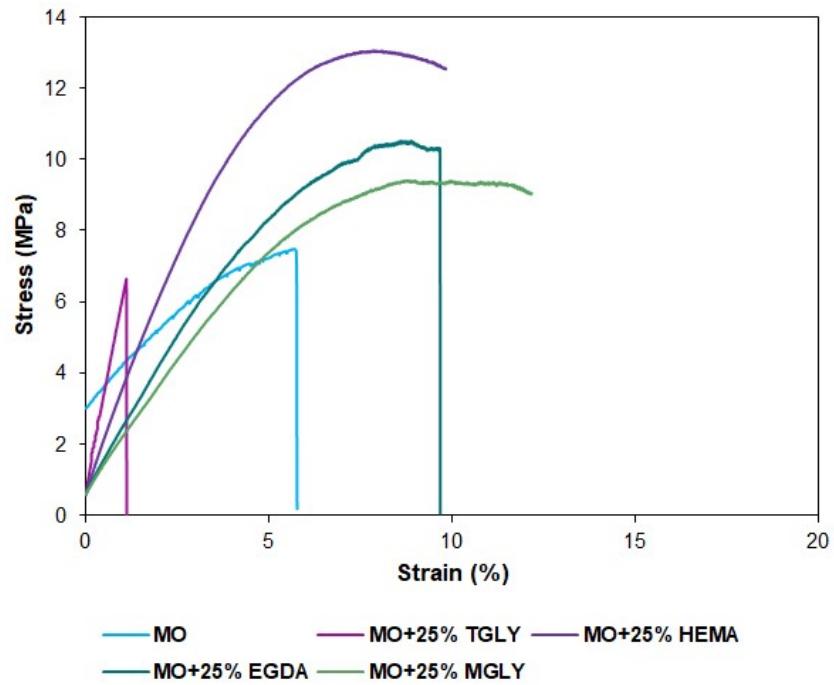


Figure S11. The stress-strain curves of the performed flexural tests.