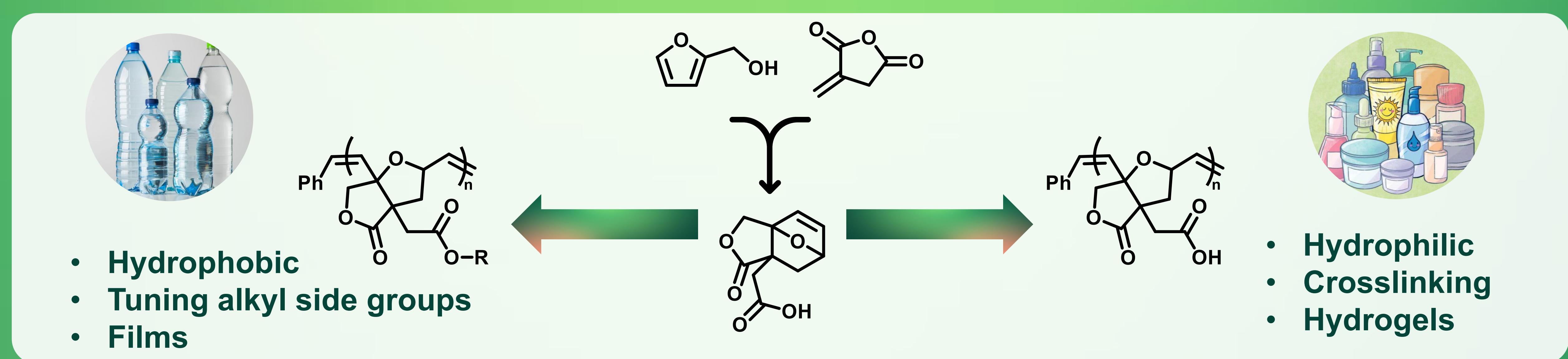


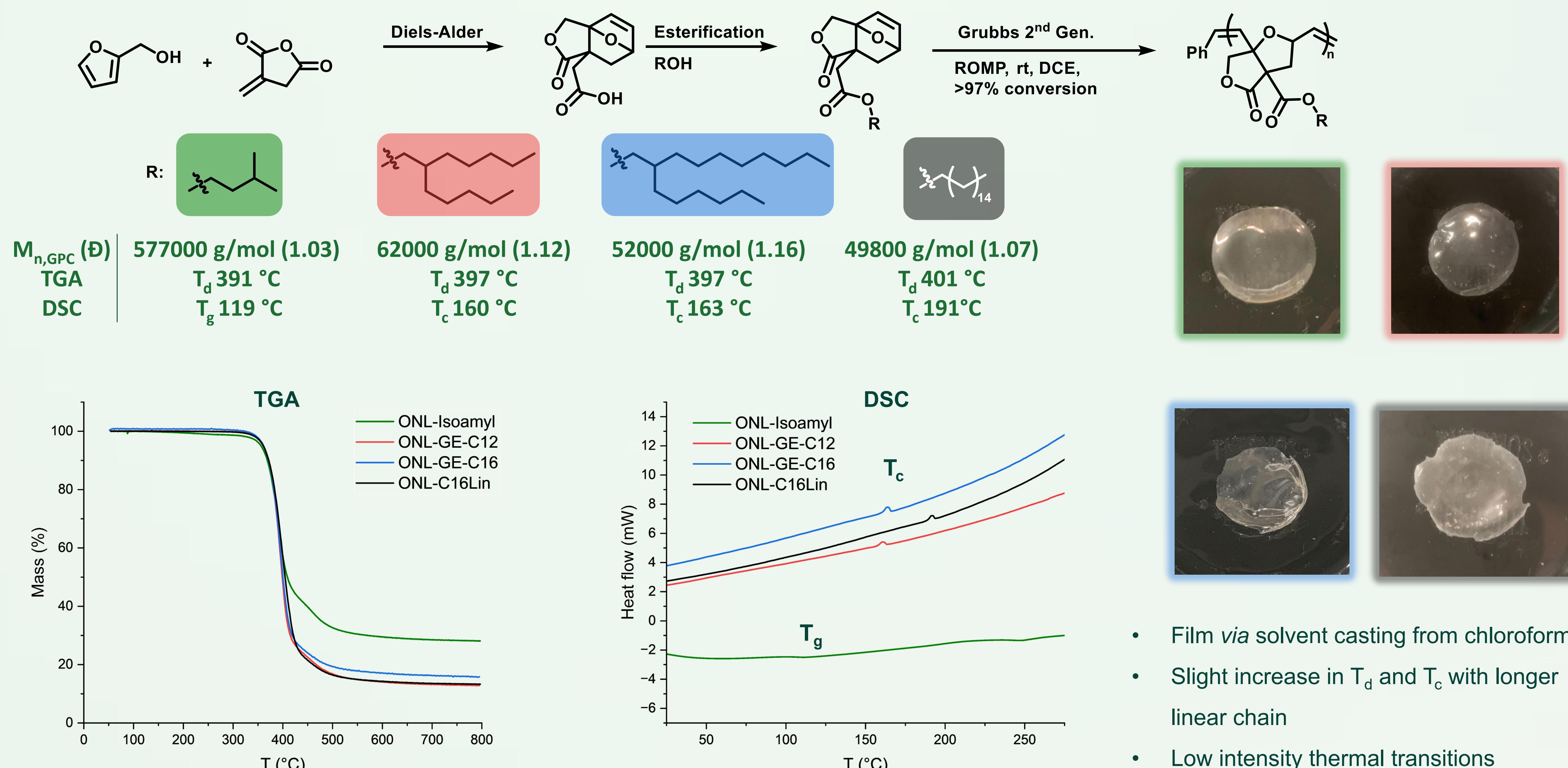
Sustainable polymers by ring-opening metathesis polymerisation derived from bio renewable monomers

Lucas Al-Shok, Kirsten Hawkins, Antoine Buchard*

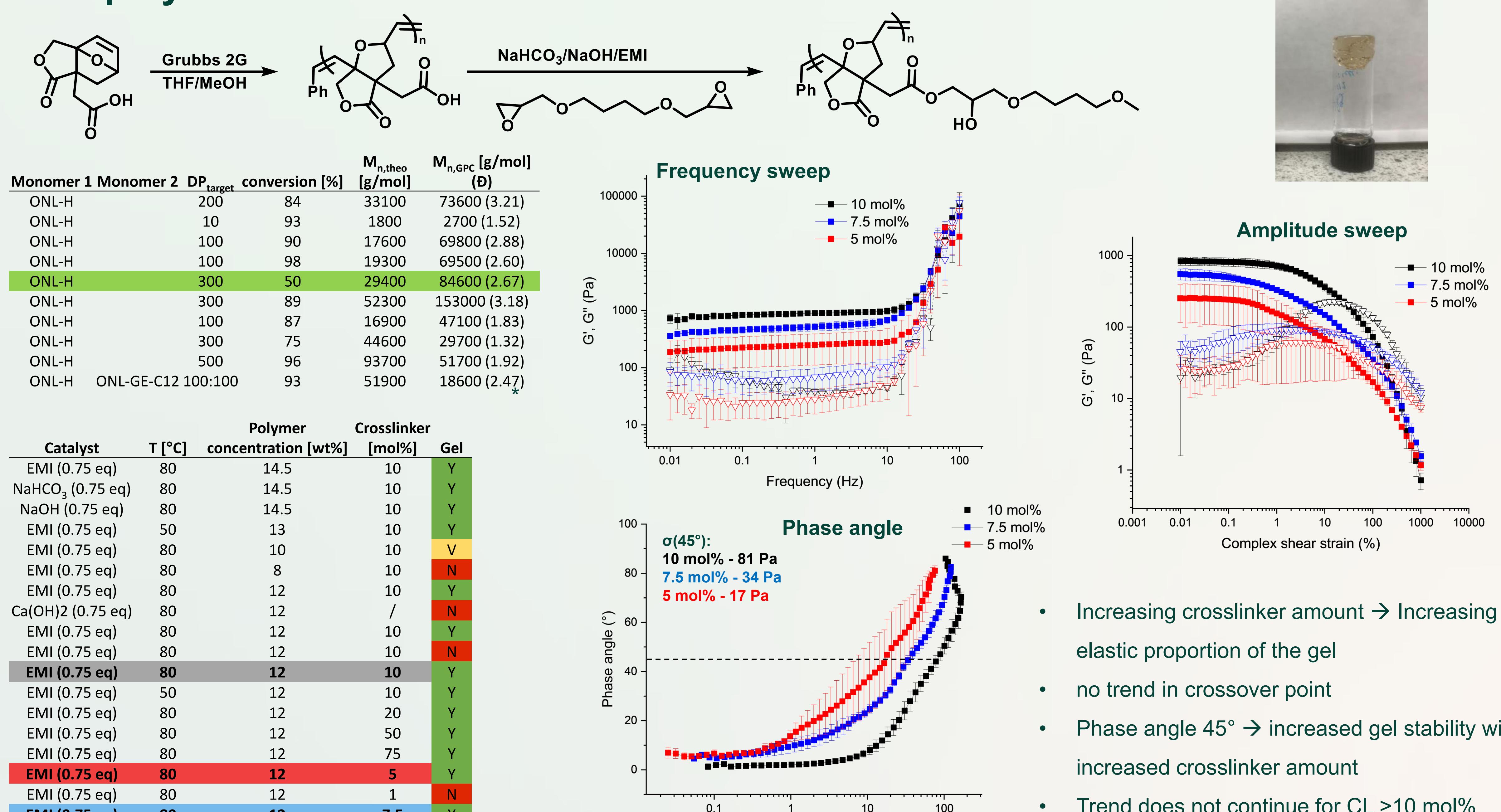
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Synthesis & polymerisation



Post-polymerisation modification



Outlook

- Expand on ONL derivatives
- Molecular weight ↔ Thermal/Rheological properties
- Optimisation of ONL-H polymerisation with protecting group chemistry
- Copolymerisation

References

- [1] Y. Bai, Mario De Bruyn, J. H. Clark, J. R. Dodson, T. J. Farmer, M. Honoré, I. D. V. Ingram, M. Naguib, A. C. Whitwood, M. North, *Green Chemistry*, 2016, 18, 3945.
[2] Y. Bai, J. H. Clark, T. J. Farmer, I. D. V. Ingram, M. North, *Polymer Chemistry*, 2017, 8, 3074.