Synthesis of poly(NBE-g-CL)

Synthesis of poly(NBE-OAc-co-NBE)

BIO60/40 polylactones and polylactides by Ring Opening Polymerization

Mecerreyes, D.; Dahan, D.; Lecomte, Ph.; Dubois, Ph.; Jérôme, R.

Synthesis of macromonomers

ROMP of PCL macromonomers

References

Acknowledgment

by Sequential Controlled Ring-Opening Polymerization.

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The authors are indebted to M.Latifi for the poster design.

Recently, ruthenium carbene complexes have been shown to initiate the Ring Opening Metathesis Polymerization (ROMP) of cyclic ethers such as norbornene (NBE) derivatives. For this purpose, a catalyst [Ru(η5-C8H8Me)2] generated "in-situ" from Me3SiCH2 and PC7, has been developed in our laboratory.

Well-defined poly(NBE-g-CL) copolymers have been prepared using either the "grafting from" or the macromonomer technique.

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Ring Opening Metathesis Polymerization (ROP)

"Grafting from" technique

Macromonomer technique

Combination of ROP and ROMP

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