



# Biopolymer thin films development

## Study case

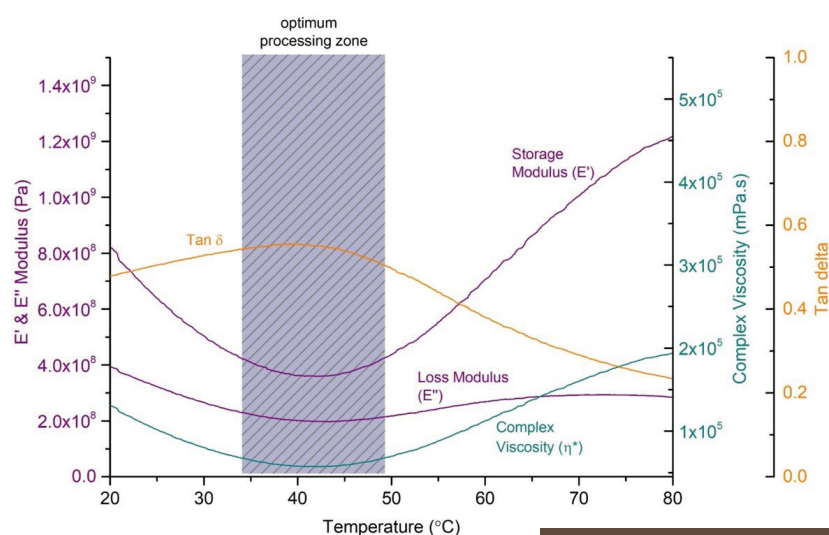
We were commissioned to build thin films with a previous developed formulation. Those were performed with a polyurethane matrix made from a **100% biopolyol** and common MDI isocyanate.

## Demolding and posterior characterization



Thin films manufacturing

The **objective** is to study this material to understand its behavior and possible application as a matrix of preregs composite materials.



DMA analysis

## Studies

Thermomechanical properties characterization with DSC and DMA, giving the gap when to apply pressure and temperature to consolidate between films.

Study of the evolution of porosity against compaction and temperature to be done in order to set up in a detail way the manufacturing parameters.