



Thibaut HEREMANS

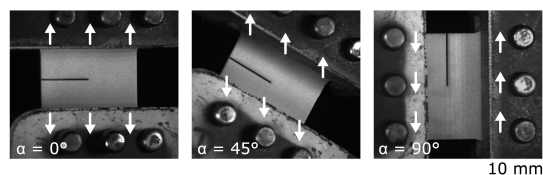
Post-doc, 2024 – 2025

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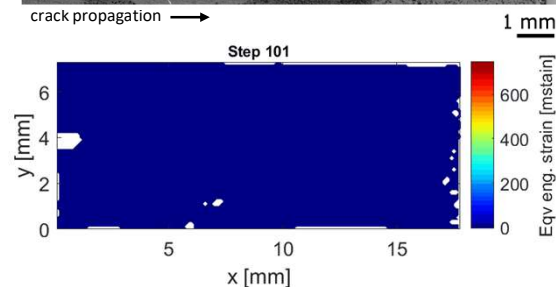
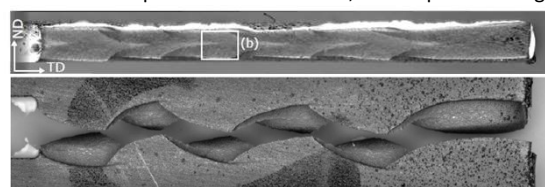
PhD @UCLouvain

Competition between fracture modes in high strength steel sheets

- Wide mechanical campaign
Tensile, notched tensile, double edge crack, Arcan



- Digital Image correlation
Complex strain distribution, crack tip monitoring

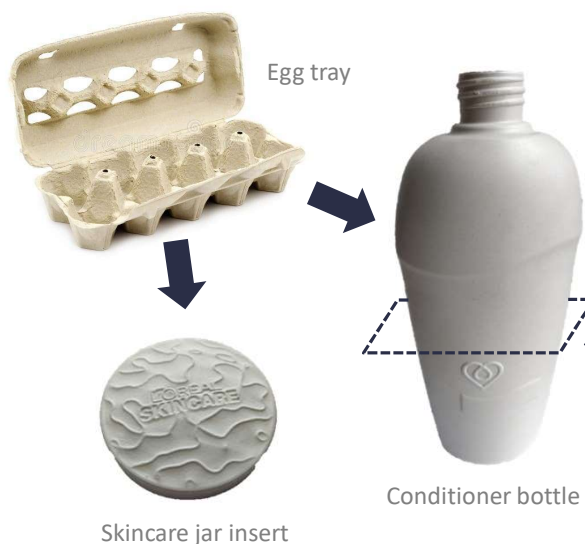


Hygromechanics of novel molded ligno-cellulosic materials for sustainable, renewable, recyclable and biodegradable packaging

Context

Moulded paper products as an affordable and eco-friendly packaging alternative for the cosmetic industry

- Improved molding technology allows proper
dimensional accuracy and surface finish

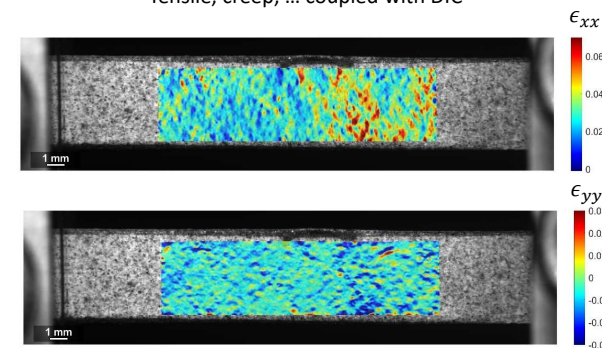


- Mechanical performances and durability ?
- Sorption properties ?

Methods

Mechanical testing under controlled moisture content and temperature

- Experimental mechanical testing
Tensile, creep, ... coupled with DIC



Heterogeneous structure

- Tomography at the meso and micro-scale

