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Injection-molding of cellulose based material for packaging applications

Injection-moulage de matières cellulosiques pour des applications d'emballage

MatBio

Context / Objectives

Alternative solutions to plastic packaging



SUPD

Single Use Plastics Directive
(2019)

→ Progressive ban of SUP

PPWR

Packaging and Packaging
Waste Regulation (2024)

→ All packaging must be
recyclable by 2030



→ End of SUP by 2040



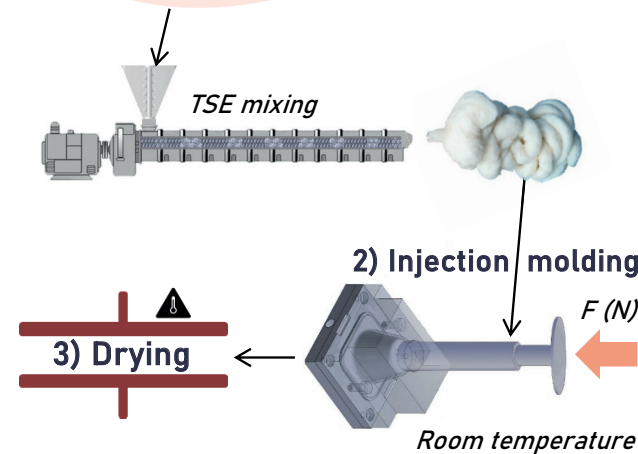
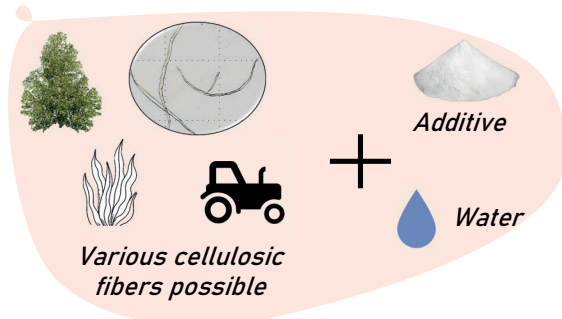
AGEC

Loi anti-gaspillage pour une économie
circulaire (2020)



Methods

1) Injectable cellulosic paste production by twin-screw extrusion



Results

Injection-molding of 3D objects containing at least 90% of cellulosic fibers

