



Towards a better understanding of the microdrobond test: Application to the characterisation of the fibre/matrix interface of recycled and/or recyclable materials

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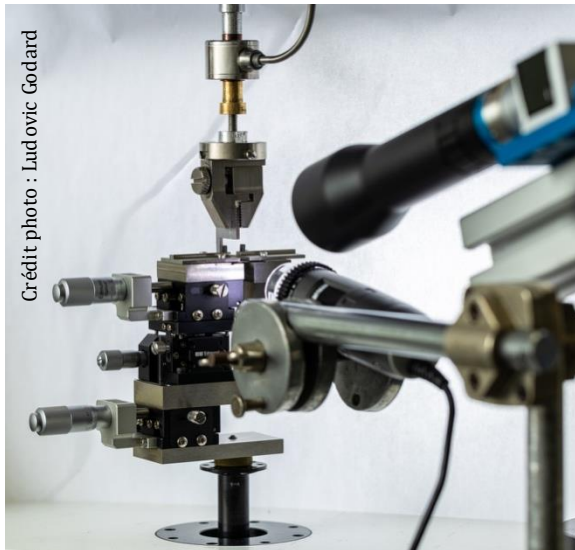
Objectives:

- Compare fibre/ matrix interface of recyclables/ recycled fibres with the natives ones
- Understand in the microbond test :
 - What are the initiation of crack initiation of the debond and their impact ?
 - What are the interfaces concerned during crack propagation scenarios ?

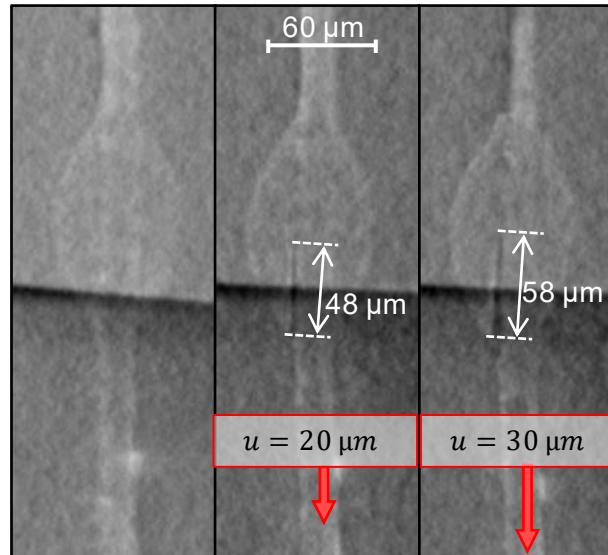


How ?

I. Development of an in-house test allowing the debonding of microdroplets on multiple couple fibre/matrix



II. X-ray in-situ debonding test



III. Modeling of a pre-penetration to understand the impact of volume shrinkage of the matrix

