

Towards sustainable viscose-to-viscose production: Strategies for recycling of viscose fibres

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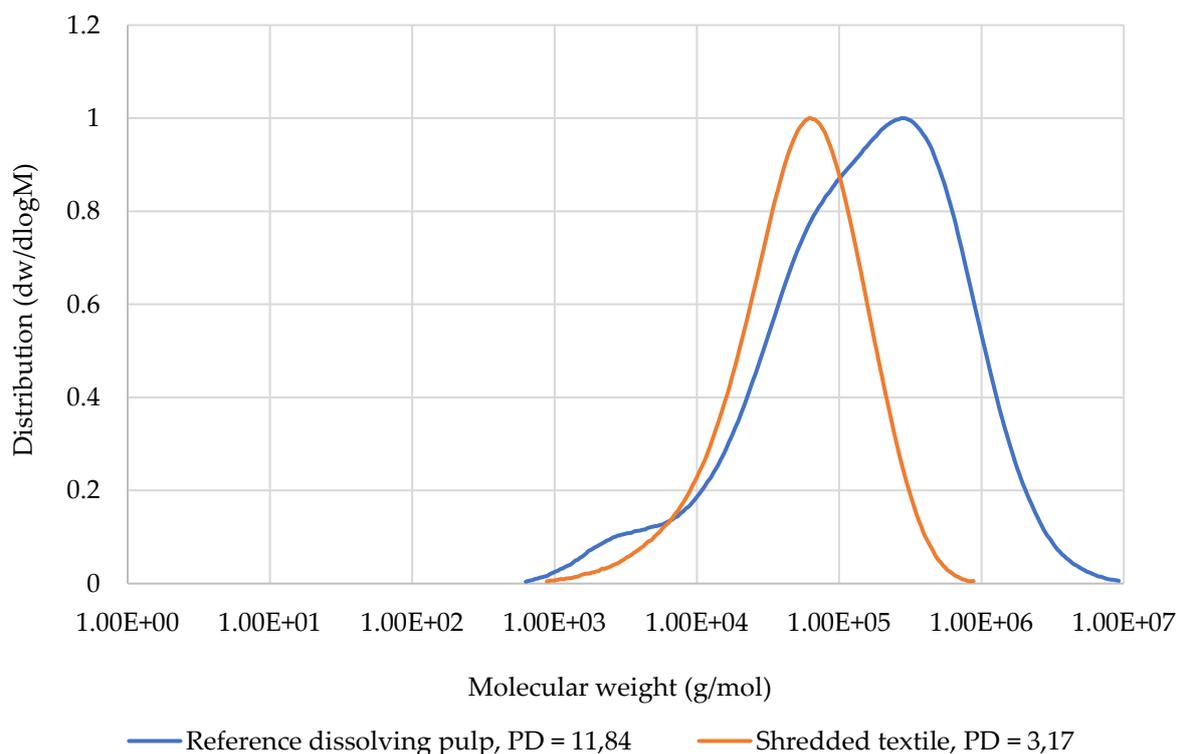


Figure S1. The molecular weight distribution of shredded textile and reference dissolved cellulose pulp for comparison.

Table S1. Composition of the spinning bath

Chemicals	Unit	Amount
H ₂ SO ₄	g/l	130
Na ₂ SO ₄	g/l	310
ZnSO ₄	g/l	9.5

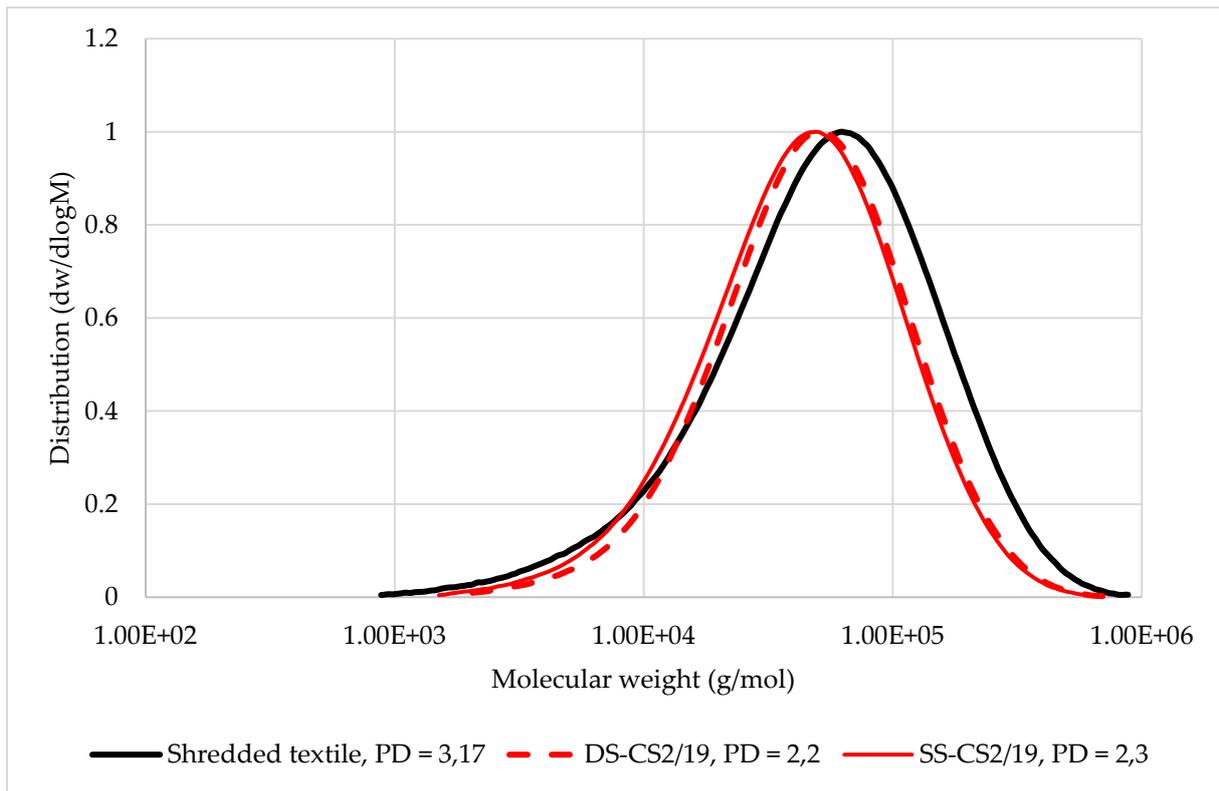


Figure S2. Molecular weight distribution curve of shredded textile, and viscose dopes produced via single steeping (SS-CS2/19) and via double-steeping (DS-CS2/19). In both cases, 19% CS₂ was used in the xanthation step.

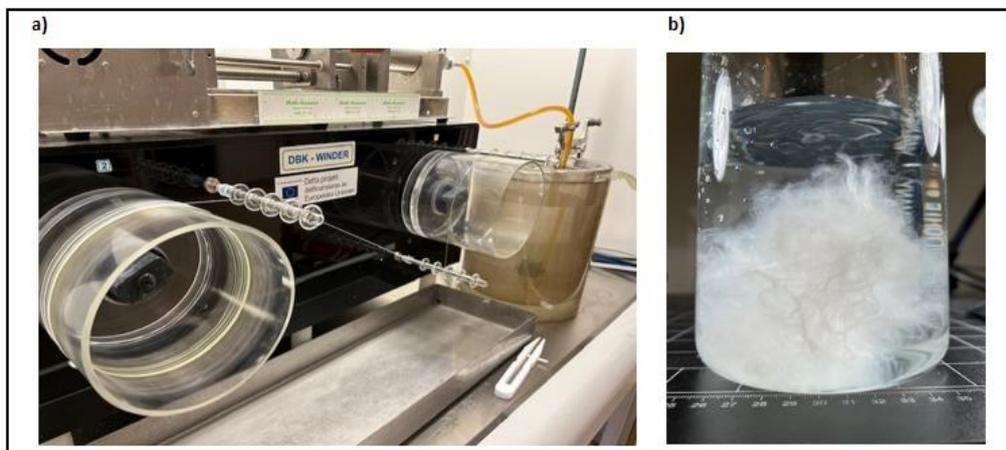


Figure S3. Viscose filaments produced using double-steeping and using 25% CS₂ in the xanthation step (DS-CS2/25). a) Spinning process and b) Washing step