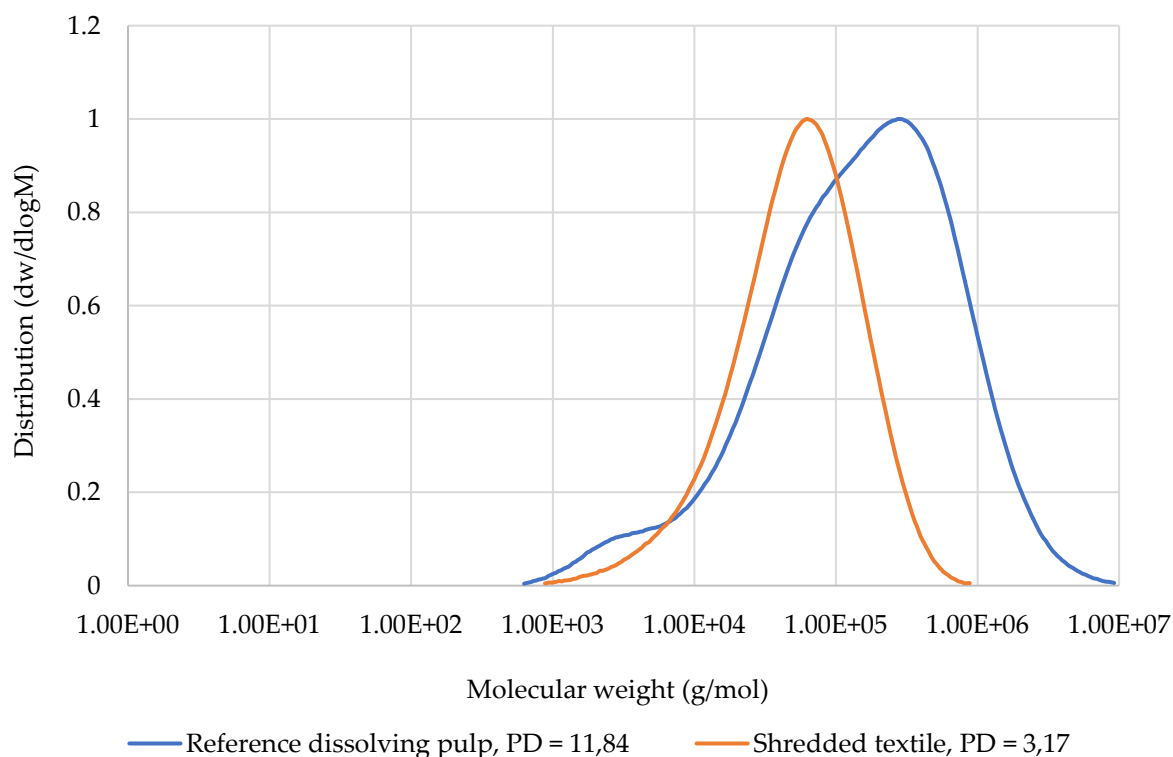


## Towards sustainable viscose-to-viscose production: Strategies for recycling of viscose fibres

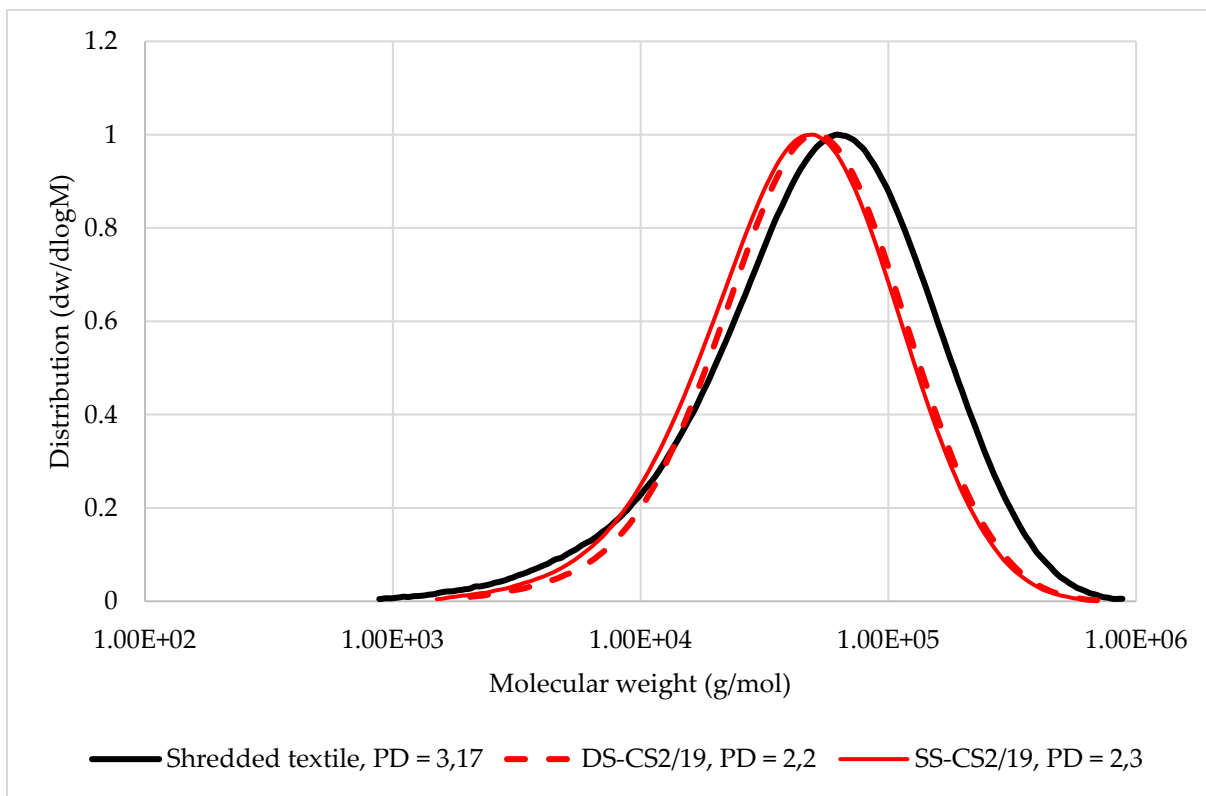
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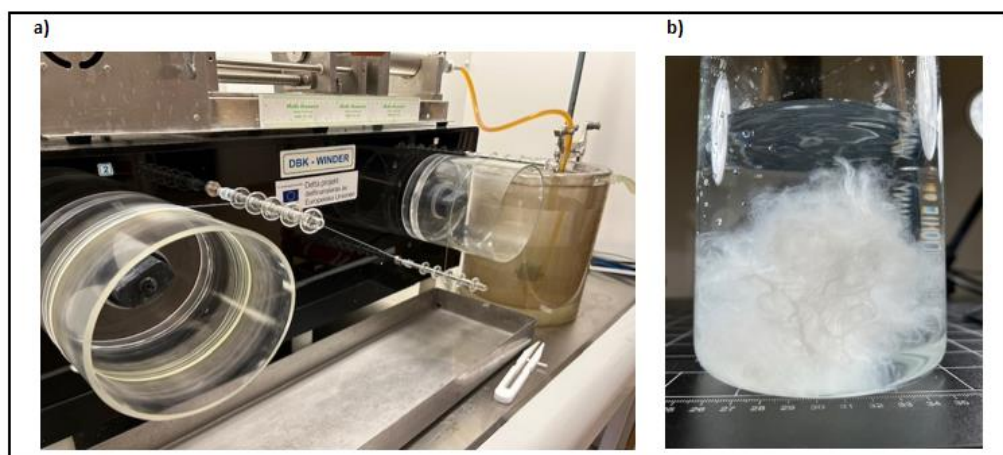
**Figure S1.** The molecular weight distribution of shredded textile and reference dissolved cellulose pulp for comparison.

**Table S1.** Composition of the spinning bath

Chemicals	Unit	Amount
H <sub>2</sub> SO <sub>4</sub>	g/l	130
Na <sub>2</sub> SO <sub>4</sub>	g/l	310
ZnSO <sub>4</sub>	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% CS<sub>2</sub> was used in the xanthation step.



**Figure S3.** Viscose filaments produced using double-steeping and using 25% CS<sub>2</sub> in the xanthation step (DS-CS2/25. a) Spinning process and b) Washing step