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Title: A plasticizer index to universally correlate the normalized work of fracture and elastic modulus of plasticized cellulose triacetates

Author: Farzaneh Azadimanesh Naser Mohammadi



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- 1 1. A universal correlation was found between plasticizer index and mechanical properties of semi-
- 2 crystalline plasticized cellulose triacetate
- 3 2. Plasticizer molar volume was found effective in polymer chain dynamic and plasticization efficiency
- 4 3. Film precursor solution concentration effects crystal structure and film morphology
- 5 4. Solvent evaporation rate plays a key role in ultimate properties of semi-crystalline plasticized cellulose
- 6 triacetate

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