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Impact of Chirality on the Glass Forming Ability and the Crystallization from the Amorphous State of 5-ethyl-5-methylhydantoin, a Chiral Poor Glass Former

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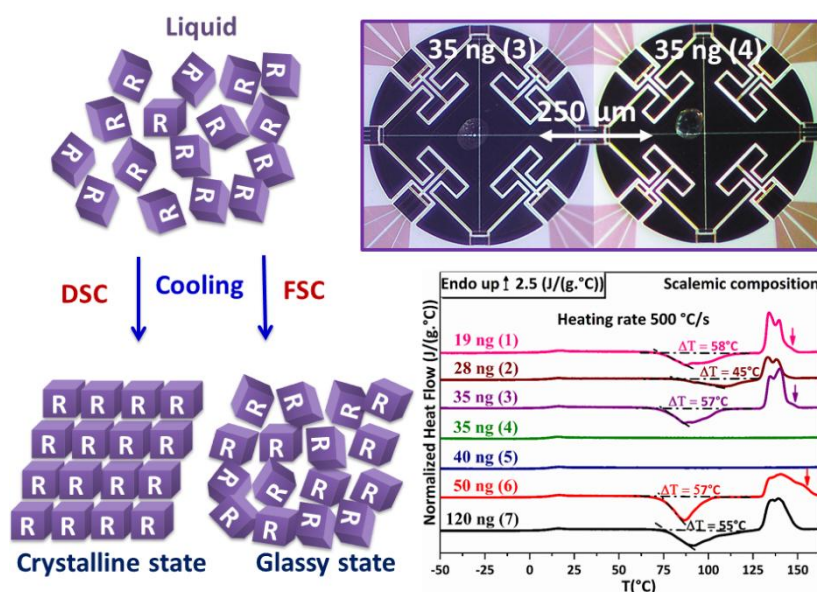
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Graphical Abstract

The Glassy state of a chiral molecular poor glass former (5-ethyl-5-methylhydantoin) was achieved by FSC while crystallization occurs by DSC. The glass transition temperature of the system (independent from the composition) was determined for the first time. The pure enantiomer presented a higher crystallization propensity compared to other compositions: crystallization of amorphous enantiopure material occurred 36 °C below T_g. Possible metastable equilibria (previously unknown) between both enantiomers were evidenced.



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