

## Amorphous Organic Solids and Their Crystallization

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Amorphous organic solids (glasses) are materials for bio-preservation, organic electronics, and delivery of poorly soluble drugs. We consider organic glasses of different structures and properties that result from different methods of preparation, including vapor deposition. We report recent progress toward understanding the stability of organic glasses against crystallization, a key requirement for amorphous materials. Fast modes of crystal growth can emerge as organic liquids are cooled to become glasses, in the bulk and at the free surface, both leading to crystal growth much faster than predicted by current theories. These phenomena are unknown or uncommon for other classes of materials. These modes of crystal growth can be inhibited by polymer dopants and coatings.

Keywords: Amorphous solid, glass, crystallization, solubility, polymer additive, stability, surface, bulk, crystallization inhibitor.