Investigation of the Interactions between Vinyl Pyrrolidone Based Polymers and Enteric Polymers Following Heat Melt Extrusion
Ryan C. Bennett, Justin R. Hughey, Justin M. Keen, Vivian Bil, Stuart Porter, and James W. McGinity
College of Pharmacy, The University of Texas at Austin, Austin, TX 78712
Ashland Specialty Ingredients (ASI), Wilmington, DE, USA

Methods

Heat Melt Extrusion

Solubility Screening

Results

Conclusion

The vinyl pyrrolidone polymer and enteric polymer interactions following heat melt extrusion were investigated. The study involved the use of a heat melt extrusion process to simulate conditions encountered in a commercial extruder. The solubility of the polymers was evaluated using a screening method that involved monitoring the formation of a “cotton candy” type of material over time. The results showed that the polymer interactions were affected by the extrusion parameters, including temperature and mixing conditions. The observations indicate that further investigation is needed to understand the underlying mechanisms and to optimize process conditions for improved product performance.

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References

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