

Thermophysical Study of Chitosan-Starch-Glutaric Acid Film in Acetic Acid-Water Mixtures

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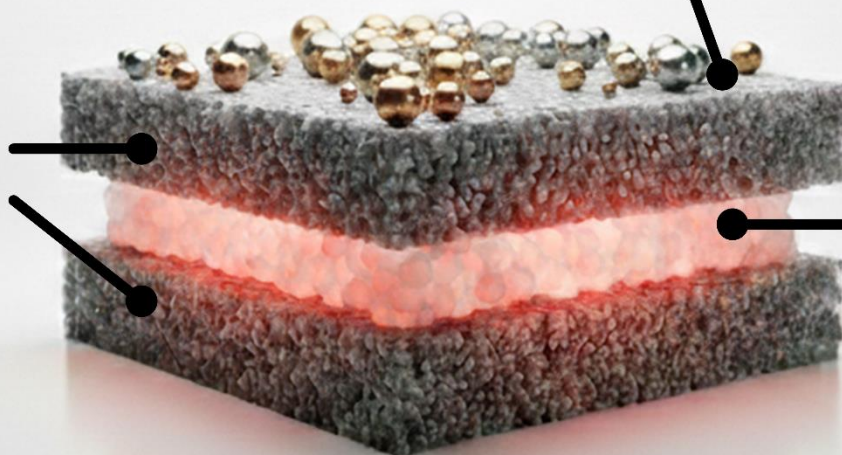
Editor's note: Crosslinking chitosan/starch blends using glutaric acid can result in the formation of films with a variety of potential applications, including the removal of heavy metals. Singh examined the effects of crosslinking on the thermal stability of chitosan/starch blends prepared with various concentration ratios. According to the reported DSC and TGA thermograms, both pure starch and pure chitosan, as well as their blended films, show lower stability compared to the crosslinked blended films, which demonstrate significantly greater stability.

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Heavy Metal Removal

Chitosan/Starch
Blend



Glutaric Acid
Crosslinks

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