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Structural and physicochemical characterization of thermoplastic corn starch films containing microalgae

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Highlights

- Thermoplastic corn starch films containing microalgae species have been developed
- The cell walls in *Spirulina* and *Scenedesmus* were disrupted during film processing
- *Nannochloropsis* remained intact during film processing conditions
- All the starch films incorporating microalgae had lower water vapour permeability
- The oxygen permeability of films were improved in those containing *Nannochloropsis*

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