

Accepted Manuscript

Title: Understanding the microstructure and absorption rate of starch-based superabsorbent polymers prepared under high starch concentration

Authors: Dongling Qiao, Long Yu, Xianyang Bao, Binjia Zhang, Fatang Jiang



PII: S0144-8617(17)30847-0
DOI: <http://dx.doi.org/doi:10.1016/j.carbpol.2017.07.071>
Reference: CARP 12588

To appear in:

Received date: 12-5-2017
Revised date: 15-7-2017
Accepted date: 24-7-2017

Please cite this article as: Qiao, Dongling., Yu, Long., Bao, Xianyang., Zhang, Binjia., & Jiang, Fatang., Understanding the microstructure and absorption rate of starch-based superabsorbent polymers prepared under high starch concentration. *Carbohydrate Polymers* <http://dx.doi.org/10.1016/j.carbpol.2017.07.071>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Understanding the microstructure and absorption rate of starch-based superabsorbent polymers prepared under high starch concentration

Dongling Qiao^{1,2}, Long Yu^{2,4*}, Xianyang Bao^{2,4}, Binjia Zhang^{3*}, Fatang Jiang¹

¹ *Glyn O. Phillips Hydrocolloid Research Centre at HBUT, School of Food and Biological Engineering, Hubei University of Technology, Wuhan, Hubei 430068, China*

² *Centre for Polymer from Renewable Resource, Guangdong Province Key Laboratory for Green Processing of Natural Products and Product Safety, South China University of Technology, Guangzhou, Guangdong 510640, China*

³ *Key Laboratory of Environment Correlative Dietology (Ministry of Education), College of Food Science and Technology, Huazhong Agricultural University, Wuhan, Hubei 430070, China*

⁴ *Department of Materials Engineering, Monash University, Melbourne, Vic 3168, Australia*

* Corresponding author. Email: felyu@scut.edu.cn (L. Yu)

* Corresponding author. Email: zhangbj@mail.hzau.edu.cn (B. Zhang)

Download English Version:

<https://daneshyari.com/en/article/5156603>

Download Persian Version:

<https://daneshyari.com/article/5156603>

[Daneshyari.com](https://daneshyari.com)