

Accepted Manuscript

Effects of lignin on the volume shrinkage and mechanical properties of a styrene/unsaturated polyester/lignin ternary composite system

Jun-Seok Yeo, Ji-Hoon Lee, Seok-Ho Hwang



PII: S1359-8368(17)30326-8

DOI: [10.1016/j.compositesb.2017.07.084](https://doi.org/10.1016/j.compositesb.2017.07.084)

Reference: JCOMB 5220

To appear in: *Composites Part B*

Received Date: 26 January 2017

Revised Date: 26 March 2017

Accepted Date: 29 July 2017

Please cite this article as: Yeo J-S, Lee J-H, Hwang S-H, Effects of lignin on the volume shrinkage and mechanical properties of a styrene/unsaturated polyester/lignin ternary composite system, *Composites Part B* (2017), doi: 10.1016/j.compositesb.2017.07.084.

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.

Effects of Lignin on the Volume Shrinkage and Mechanical Properties of a Styrene/Unsaturated Polyester/Lignin Ternary Composite System

Jun-Seok Yeo, Ji-Hoon Lee and Seok-Ho Hwang*

Department of Polymer Science & Engineering, Materials Chemistry & Engineering
Laboratory, Dankook University, Yongin, Gyeonggi 16890, South Korea
E-mail: bach@dankook.ac.kr

Corresponding Author: Seok-Ho Hwang, Ph.D., Prof.

Mailing address: Department of Polymer Science & Engineering
Dankook University
152 Jukjeonro, Yongin, Gyeonggi 16890
South Korea

Phone number: +82-31-8005-3588

Fax number: +82-31-8021-7218

E-mail: *bach@dankook.ac.kr*

Download English Version:

<https://daneshyari.com/en/article/5021117>

Download Persian Version:

<https://daneshyari.com/article/5021117>

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