

Accepted Manuscript

Title: Hyper-branched polymer grafting graphene oxide as an effective flame retardant and smoke suppressant for polystyrene

Author: Weizhao Hu Bin Yu Shu-Dong Jiang Lei Song Yuan Hu Bibo Wang



PII: S0304-3894(15)00496-3
DOI: <http://dx.doi.org/doi:10.1016/j.jhazmat.2015.06.040>
Reference: HAZMAT 16895

To appear in: *Journal of Hazardous Materials*

Received date: 3-3-2015
Revised date: 22-5-2015
Accepted date: 18-6-2015

Please cite this article as: Weizhao Hu, Bin Yu, Shu-Dong Jiang, Lei Song, Yuan Hu, Bibo Wang, Hyper-branched polymer grafting graphene oxide as an effective flame retardant and smoke suppressant for polystyrene, *Journal of Hazardous Materials* <http://dx.doi.org/10.1016/j.jhazmat.2015.06.040>

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Hyper-branched polymer grafting graphene oxide as an effective flame retardant and smoke suppressant for polystyrene

Weizhao Hu,^a Bin Yu,^{a,b} Shu-Dong Jiang,^a Lei Song,^{a,b} Yuan Hu^{*,a,b} and Bibo Wang^{**a,b}

^a State Key Laboratory of Fire Science, University of Science and Technology of China, Anhui 230026, P. R. China

^b Suzhou Key Laboratory of Urban Public Safety, Suzhou Institute for Advanced Study, University of Science and Technology of China, Suzhou, Jiangsu 215123, P.R. China

*Corresponding author: Yuan Hu

Fax/Tel: +86-551-63601664

E-mail address: yuanhu@ustc.edu.cn (Yuan Hu)

**Corresponding author: Bibo Wang

Fax/Tel: +86-551-63602353

E-mail address: wbibo@ustc.edu.cn (Bibo Wang)

Highlights

- ▶ A well-defined functionalized graphene oxide (FGO) grafted by hyper-branched flame retardant based on N-aminoethyl piperazine and phosphonate derivative was synthesized.

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