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PII: S0040-6031(17)30175-2
DOI: http://dx.doi.org/doi:10.1016/j.tca.2017.07.006
Reference: TCA 77788

To appear in: *Thermochimica Acta*

Received date: 14-5-2017
Revised date: 3-7-2017
Accepted date: 12-7-2017

Please cite this article as: Ming Huang, Yan Luo, Yi Zhong, Min Xiao, Jiancan Hu, Preparation and Characterization of Microencapsulated Phase Change Materials with Binary Cores and Poly (allyl methacrylate) (PALMA) Shells Used for Thermo-regulated Fibers, Thermochimica Actahttp://dx.doi.org/10.1016/j.tca.2017.07.006

# Preparation and Characterization of Microencapsulated Phase Change Materials with Binary Cores and Poly (allyl methacrylate) (PALMA) Shells Used for Thermo-regulated Fibers

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## Graphical abstract

Microcapsulated phase change materials with butylstearate and tetradecanol as binary cores and poly (allyl methacrylate) as shell, were prepared for thermo-regulated fibers. The latent heat and encapsulation efficiency can reach up to 73.3 J·g$^{-1}$ and 76.4 wt.%, respectively.