## 20 員環構造の形成を伴う環化重合系の開発

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Development of Cyclopolymerization through 20-Membered Ring Formation (<sup>1</sup>Faculy of Engineering, Yamagata University, <sup>2</sup>Graduate School of Science and Engineering, Yamagata University) Opaiki Yagura, <sup>1</sup>Yoshimasa Matsumura, <sup>2</sup>Bungo Ochiai<sup>2</sup>

We attained cyclopolymerization giving a soluble polymer having a 20-membered ring in the repeating unit using *cis*-1,3-bis(2-acryloyloxyethylcarbamoyloxy)cyclohexane. The *cis*-monomer was prepared by the reaction of a *cis*- and *trans*-mixture of 1,3-cyclohexanediol followed by recrystallization.

Keywords: Radical polymerization; Cyclopolymerization

1) B. Ochiai, T. Shiomi, H. Yoshita, Polym. J. 2016, 48, 859-862.