Electronic Supplementary Material (ESI) for Physical Chemistry Chemical Physics. This journal is © the Owner Societies 2014

Influence of substituent on Equilibrium of benzoxazine synthesis from Mannich Base and formaldehyde

Yuyuan Deng, Qin Zhang, Qianhao Zhou, Chengxi Zhang, Rongqi Zhu, Yi Gu*

State Key Laboratory of Polymer Materials Engineering, College of Polymer Science and Engineering, Sichuan University, Chengdu, Sichuan 610065, PR China

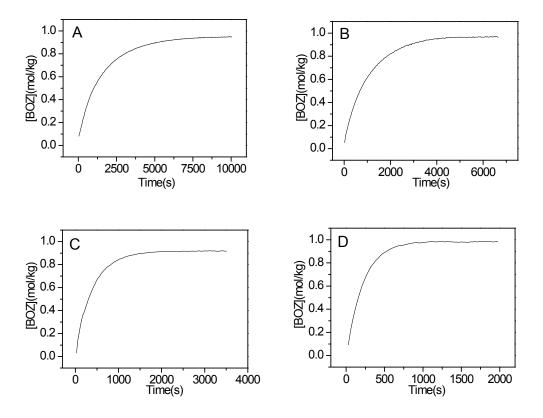


Figure S1. Concentrations of benzoxazine versus time by in situ IR ([MB] $_0$ =1.0 mol/kg, [F] $_0$ =1.0mol/kg). A. 34 °C; B.40 °C; C.52 °C; D. 63 °C

In this paper, the reaction time of Mannich base and formaldehyde at 50 °C, 60 °C, 70 °C and 80 °C is 6 h, 4 h, 4 h and 2 h, respectively. According to Figure S1, the reaction time is long enough to reach equilibrium.