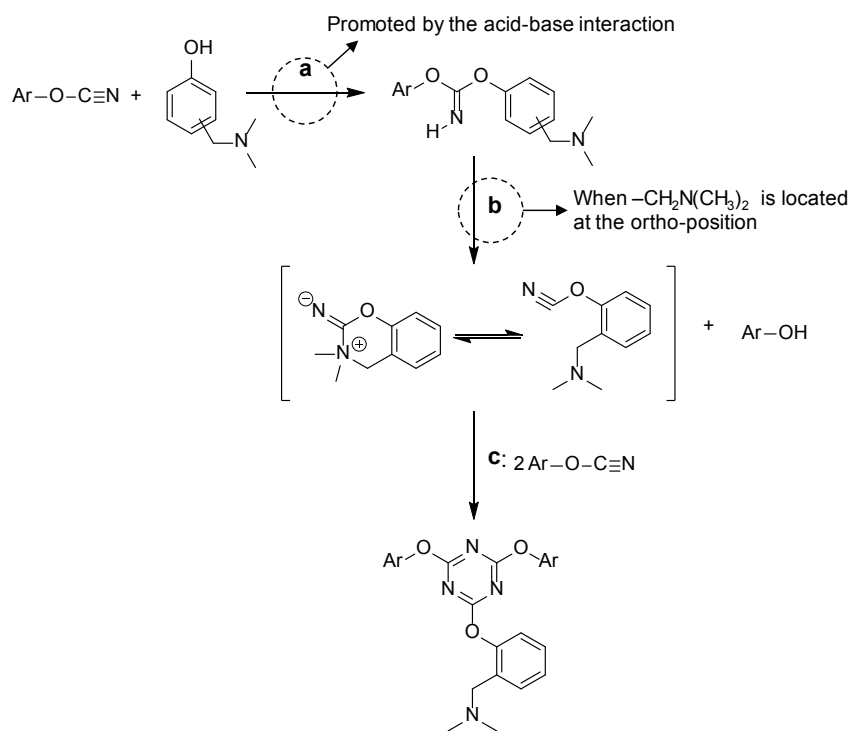
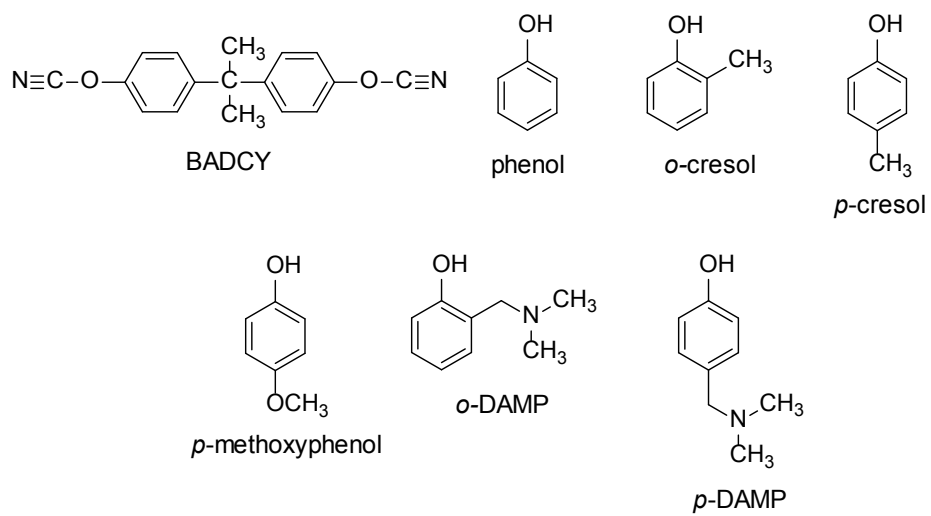


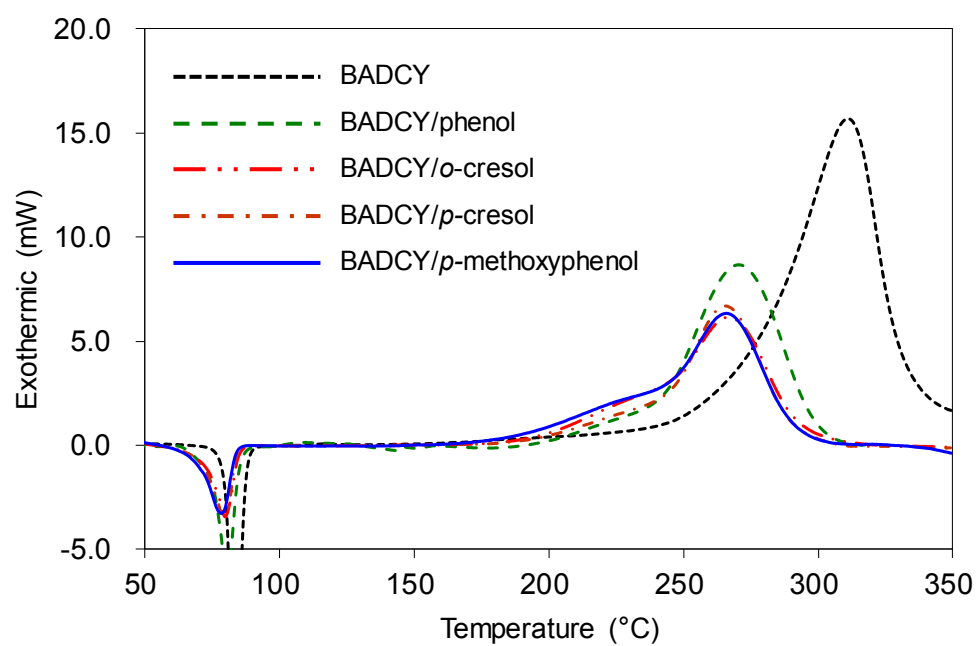
**Scheme 1** Cyclotrimerization of cyanate ester resin



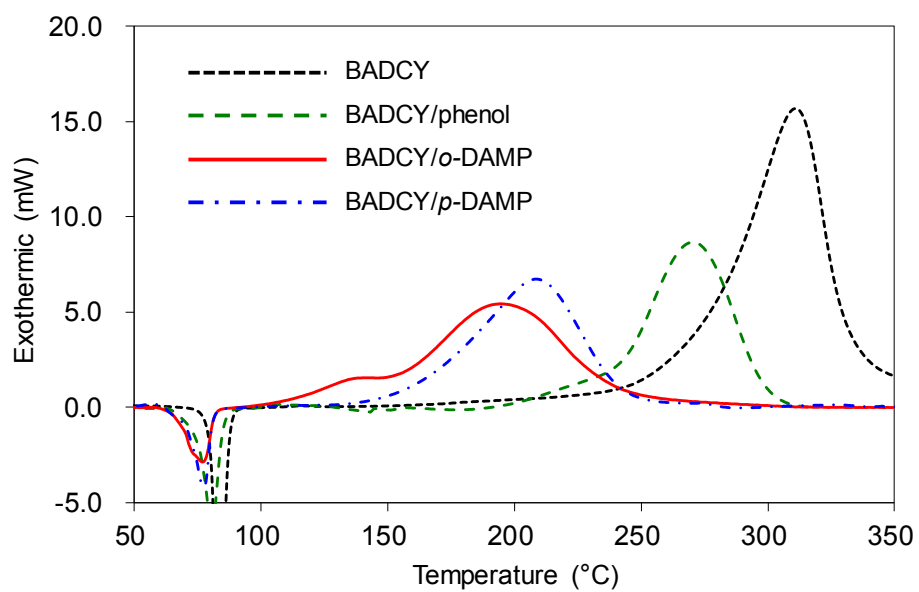
**Scheme 2** Presumed curing mechanism of cyanate ester resin in the presence of *o*-DAMP



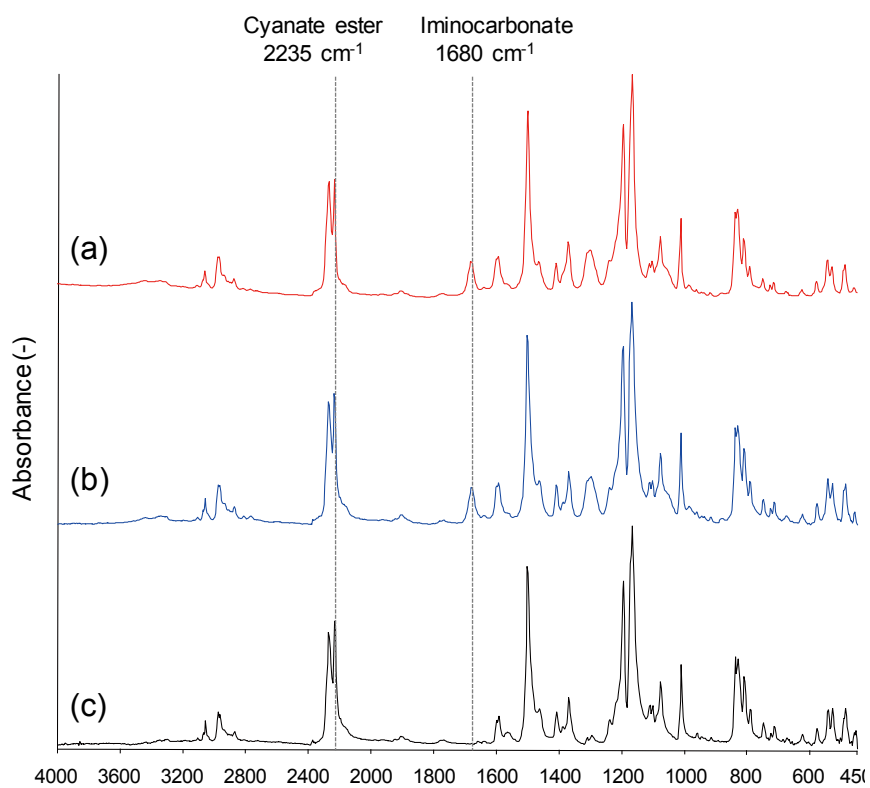
**Figure 1** Chemical structures of the compounds used in this study



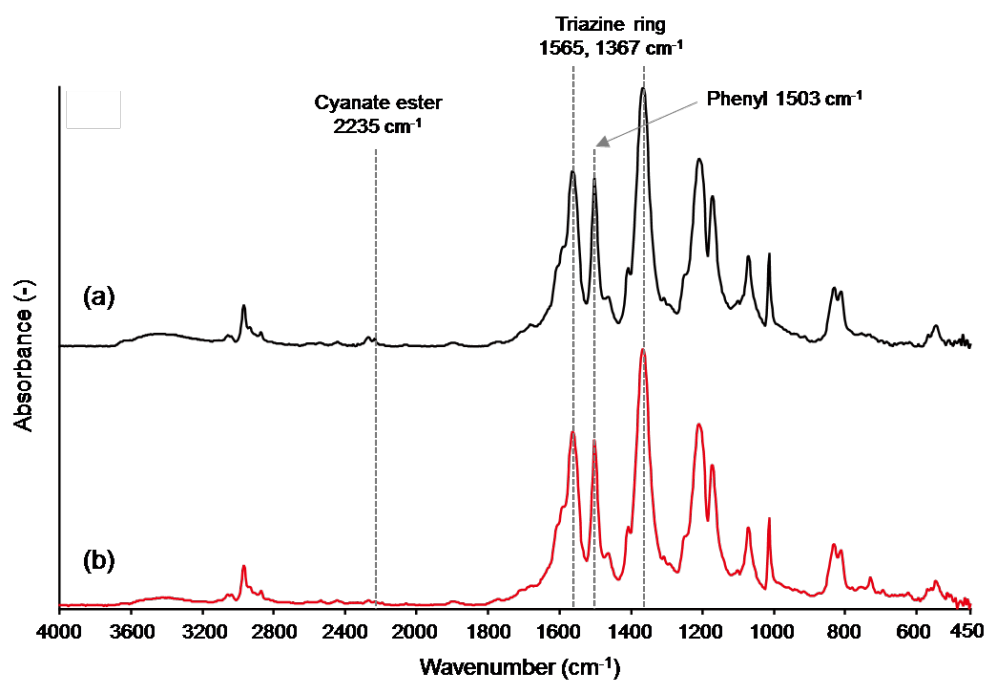
**Figure 2** DSC thermograms of BADCYs in the absence and presence of the phenolic compounds (OCN/OH = 1.0/0.05).



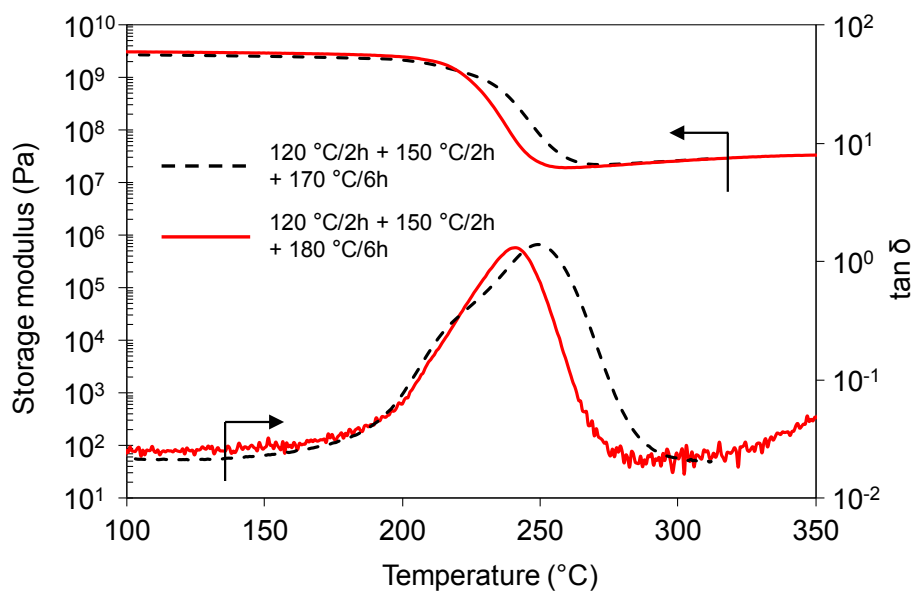
**Figure 3** DSC thermograms of BADCYs in the absence and presence of phenol, *o*-DAMP and *p*-DAMP (OCN/OH = 1.0/0.05).



**Figure 4** FT-IR spectra of (a) BADCY/*o*-DAMP, (b) BADCY/*p*-DAMP and (c) BADCY/phenol before the DSC measurements (OCN/OH = 1.0/0.05).

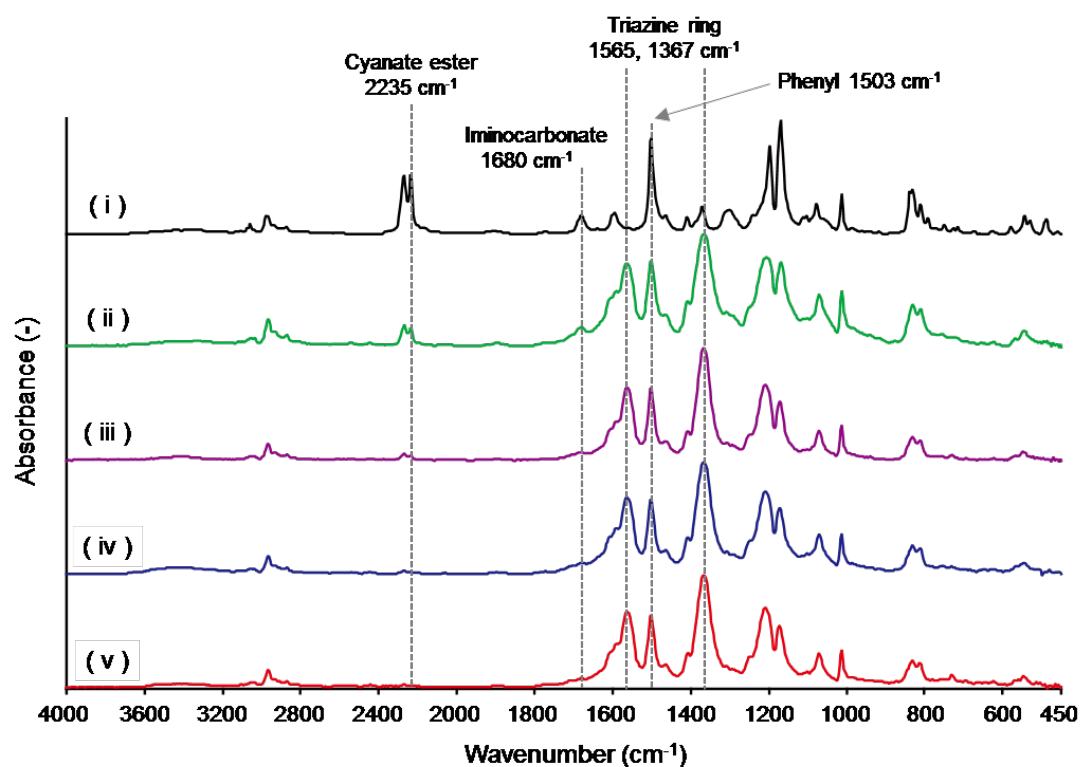


**Figure 5** FT-IR spectra of BADCY/*o*-DAMPs cured at (a) 120 °C/2h + 150 °C/2h + 170 °C/6h and (b) 120 °C/2h + 150 °C/2h + 180 °C/6h (OCN/OH = 1.0/0.05).

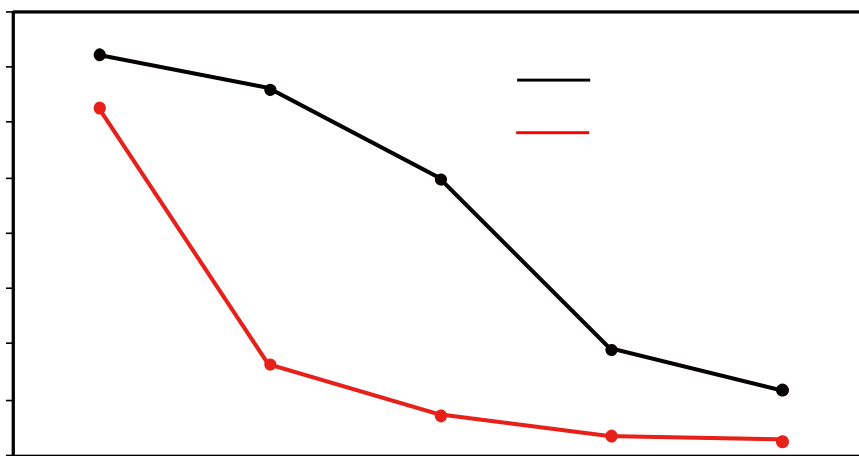


**Figure 6** DMA results of BADCY/*o*-DAMPs cured under different conditions (OCN/OH = 1.0/0.05).

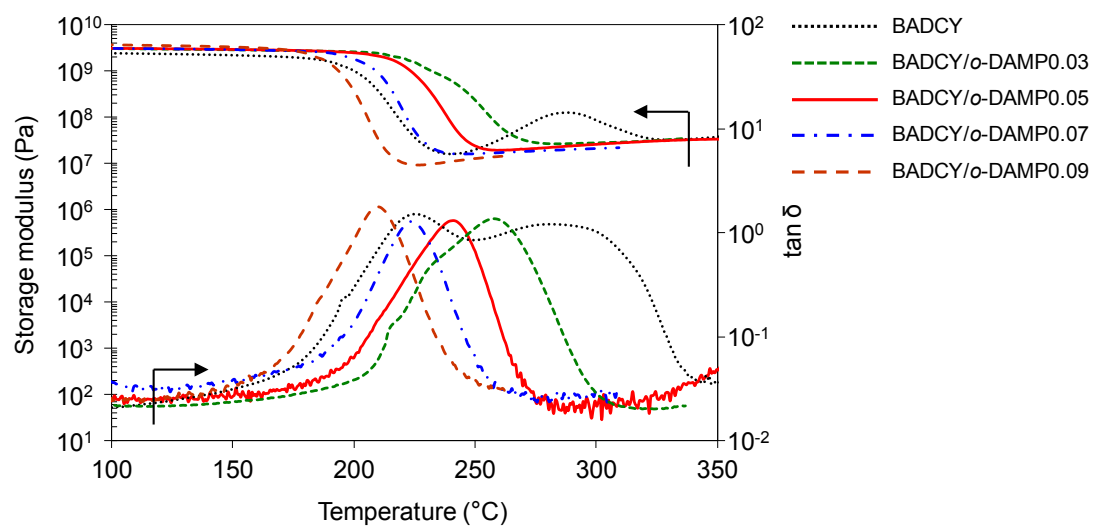




**Figure 7** FT-IR spectra of BADCY/*o*-DAMP at each curing step (OCN/OH = 1.0/0.05); (i) before curing, (ii) after 120 °C/2 h, (iii) after 120 °C/2 h + 150 °C/2 h, (iv) after 120 °C/2 h + 150 °C/2 h + 180 °C/2 h, and (v) after 120 °C/2 h + 150 °C/2 h + 180 °C/6 h.



**Figure 8** Changes in  $A_{\text{OCN}}/A_{\text{phenyl}}$  for each curing step in BADCY/*o*-DAMP (OCN/OH = 1.0/0.05) and BADCY without a catalyst; (i) before curing, (ii) after 120 °C/2 h, (iii) after 120 °C/2 h + 150 °C/2 h, (iv) after 120 °C/2 h + 150 °C/2 h + 180 °C/2 h, and (v) after 120 °C/2 h + 150 °C/2 h + 180 °C/6 h.



**Figure 9** DMA results of BADCY/*o*-DAMPs with different ratios between OCN in BADCY and OH in *o*-DAMP.