Supplementary material

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**Figure 1.** 1H NMR spectrum of benzoxazine based on 4,4’-diaminodiphenylmethane in toluene/isopropanol 2:1.

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**Figure 2.** 13C NMR spectrum of benzoxazine based on 4,4’-diaminodiphenylmethane in toluene/isopropanol 2:1.

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**Figure 3.** DSC curves of polybenzoxazines based on diamines (heating rate 10 deg / min).

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**Figure 4.** Mass spectrum of degradation of polybenzoxazine P-q in the air at 343 oC.

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**Figure 5.** Mass spectrum of degradation of polybenzoxazine P-q in the argon at 373 oC.

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**Figure 6.** Mass spectrum of degradation of polybenzoxazine P-q in the argon at 438 oC.

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**Figure 7.** Mass spectrum of degradation of polybenzoxazine P-q in the argon at 445 oC.

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