Environmentally friendly fire resistant epoxy resins based on a new oligophosphonate with high flame retardant efficiency

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Fig. S1 FTIR spectra of bisphenol 2 (a) and oligophosphonate PFR (b).
Fig. S2 $^1$H-NMR spectra of bisphenol 2 (a) and oligophosphonate PFR (b).
Fig. S3 EDX spectra and EDX mapping (P = phosphorus) of EP-1 (left) and EP-2 (right).
Fig. S4 Comparative TG curves, in air (a) and nitrogen (b).
Fig. S5 DSC curves of PFR, EP-0, EP-1 and EP-2.

Fig. S6 EDX spectra of PFR, EP-0 and EP-2 heated up to 700°C with the heating rate of 10°C min⁻¹, in nitrogen.