## **Supporting information**

## Hexachlorocyclotriphosphazene Functionalized

Graphene Oxide as highly Efficient Flame

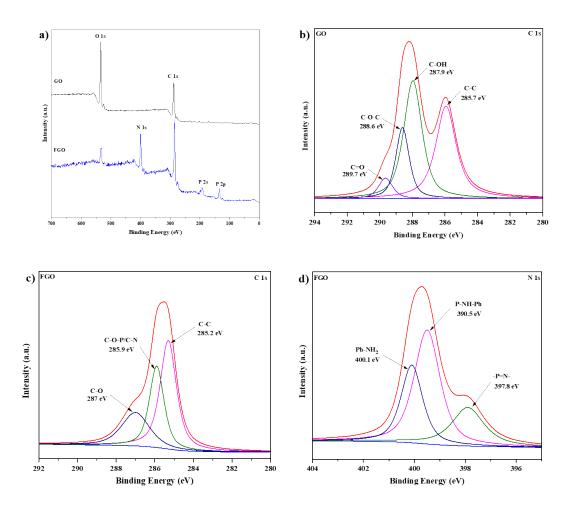
## Retardant

Khaled Rhili<sup>a</sup>, SihamChergui<sup>a</sup>, Ahmad Samih ElDouhaibi<sup>b</sup>, and Mohamed Siaj<sup>a</sup>\*

<sup>a</sup>Department of Chemistry, University of Quebec at Montreal, Montreal QC, H3C3P8, Canada

<sup>b</sup> Department of Chemistry, Lebanese University, College of Science III, Campus Mont Michel, 1352, Tripoli, Lebanon

**Figure S1.** Illustration of synthetized thermoset epoxy resin.



**Figure S2.** a) survey spectra of GO and FGO; (b) C 1s spectrum of GO; (c) C 1s and (d) N 1s spectra of FGO.

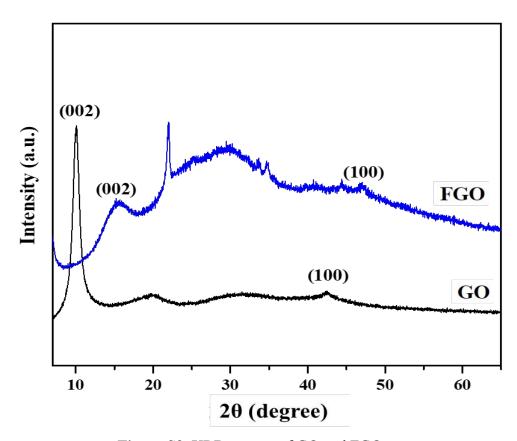
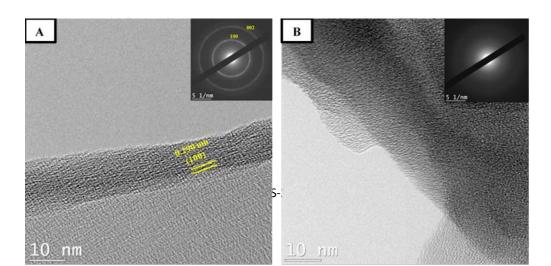


Figure S3. XRD spectra of GO and FGO.



**Figure S4.** High-resolution transmission electron microscopy (HRTEM) image with the corresponding SAED pattern (top insert) of (A) (GO) and (B) (FGO).

**Table S1:** Element content of GO and FGO measured from XPS analysis.

GO				
do	64.3	35.7	-	-
FGO	63.7	7.9	6.0	22.5

**Table S2:** Detailed TGA data for EP and its composites under N<sub>2</sub> atmosphere.

Samples	T <sub>10</sub> /°C	T <sub>max</sub> (wt%/oC)	Residue at 800 °C (wt%)
EP	370	-1.85	14
EP@GO2%	341	-1.57	14.7
EP@FGO2%	342	-1.36	18.3
EP@FGO5%	350	-1.18	20.1
EP@FGO10%	317	-0.85	23