

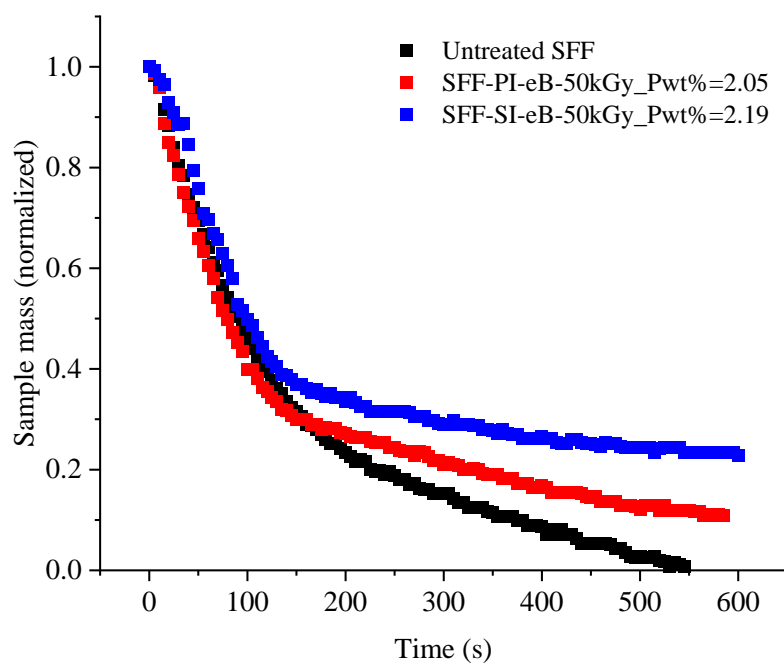
## Supporting information

**Table S1.** Target dose and corresponding measured dose for pre-irradiation.

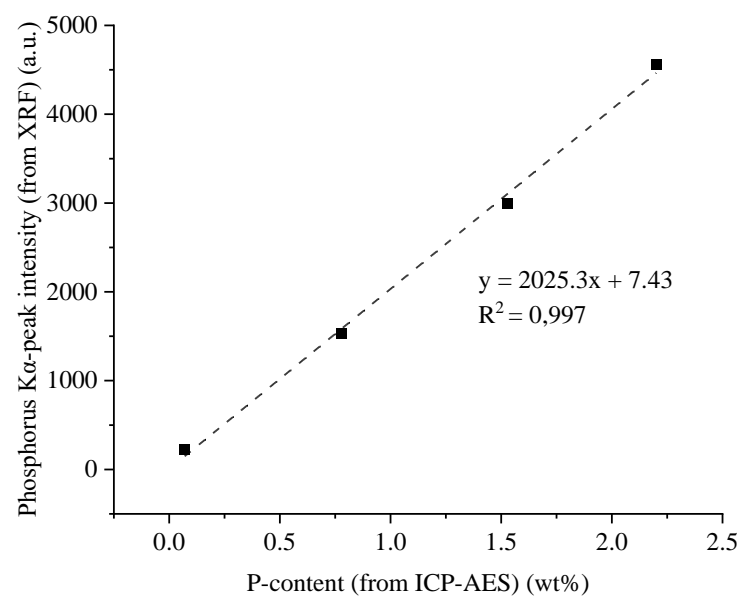
Target dose (kGy)	10	20	50	75	100
Measured dose (e-Beam) (kGy)	9.7	19.4	47.6	67.8	95.0
Measured dose ( $\gamma$ -rays) (kGy)	11	23.5	54.2	82.9	108.1

**Table S2.** Target dose and corresponding measured dose for simultaneous irradiation.

Target dose (kGy)	10	20	50	75	100
Measured dose (e-Beam) (kGy)	11.5	23.3	54.2	84.8	100
Measured dose ( $\gamma$ -rays) (kGy)	10	19	50.3	98.4	119.8



**Figure S1.** Sample mass versus time during cone calorimetry testing.



**Figure S2.** Calibration curve used to measure P-content of treated SFF with XRF.