

# Supplementary Information for

## Highly Effective Flame-Retardant Rigid Polyurethane Foams: Fabrication and Applications in Inhibition of Coal Combustion

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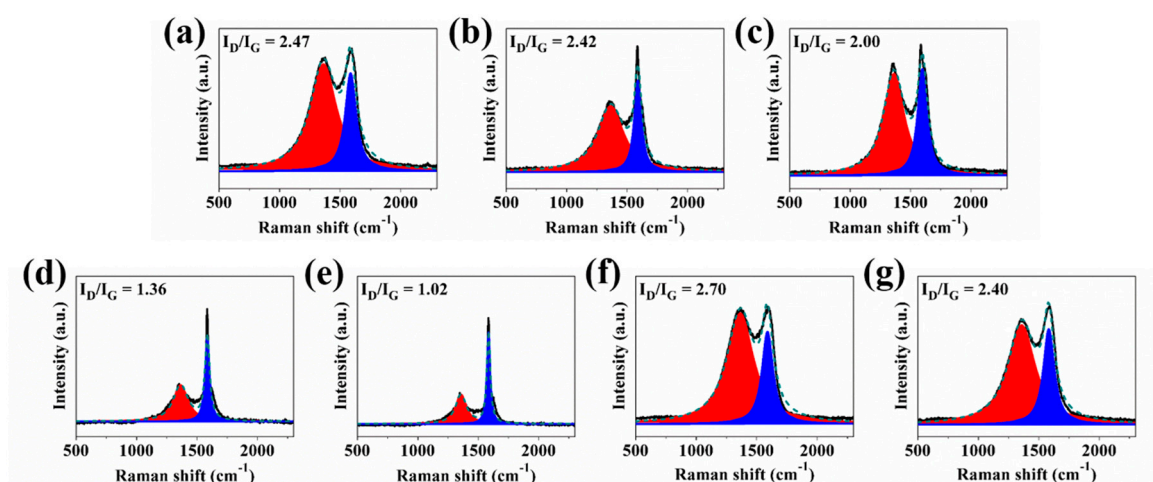
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## Additional Supporting Data

**Table S1.** The vertical burning data of RPUF and its composites.

Sample No.	UL-94		
	t1/t2 (s)	Absorbent cotton	Rating
RPUF-1	—	NC	NR
RPUF-2	2.4/1.5	NC	V-0
RPUF-3	1.7/3.7	NC	V-0
RPUF-4	1.7/4.0	NC	V-0
RPUF-5	2.1/0.0	NC	V-0
RPUF-6	1.0/0.0	NC	V-0
RPUF-7	25.5/0.0	NC	V-1

Note: NC indicates no combustion; NR means no rating.



**Figure S1.** Raman spectra of external char residues of (a) RPUF-1, (b) RPUF-2, (c) RPUF-3, (d) RPUF-4, (e) RPUF-5, (f) RPUF-6, and (g) RPUF-7 after cone calorimeter testing.



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