

Supporting Information

Synergistic Effect of 4A Molecular Sieve on Intumescent Ternary H-bonded Complex in Flame-Retarding of Polypropylene

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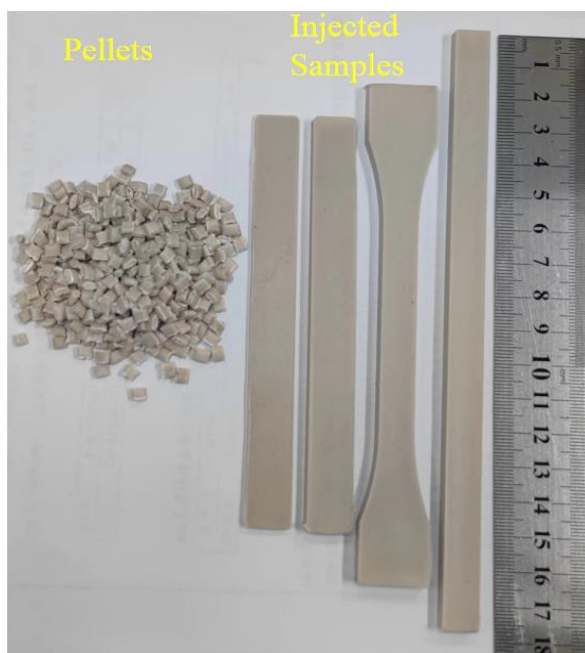


Figure S1. Digital photo of the sample pellets and injected samples.

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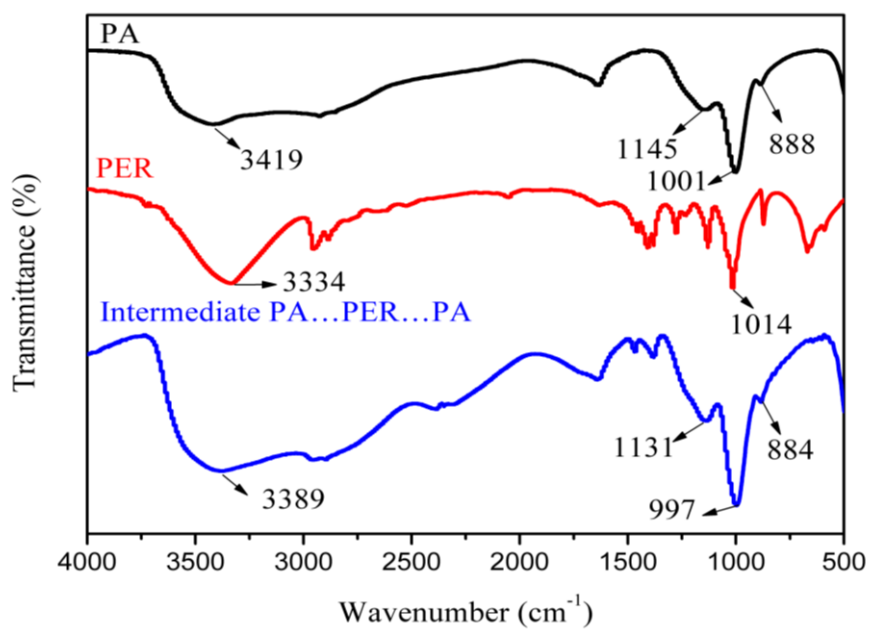


Figure S2. FT-IR spectra of PA, PER and intermediate PA...PER...PA.



Figure S3. Digital photos of carbon residue for TH-IFR/4A/PP4.

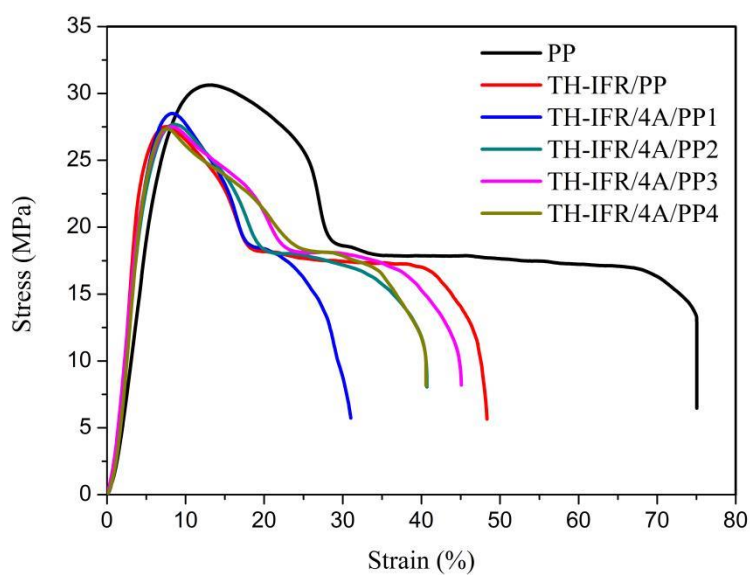


Figure S4. The stress-strain curves of pure PP and FR PP composites.

Table S1 The element content of TH-IFR and 4A estimated from EDS surveys

Sample	C (at%)	N (at%)	O (at%)	P (at%)	Na (at%)	Al (at%)	Si (at%)
TH-IFR	36.26	30.47	26.73	6.54	-	-	-
4A	-	-	49.83	-	13.41	18.02	18.74

Table S2 The element content of carbon residue for TH-IFR/PP and TH-IFR/4A/PP1 estimated from EDS surveys

Sample	C (at%)	N (at%)	O (at%)	P (at%)	Al (at%)	Si (at%)
TH-IFR	40.65	3.31	35.17	20.87	-	-
4A	53.68	1.45	29.71	12.87	1.20	1.09