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Article

Synthesis and Characterization of In-Situ-Prepared Nanocomposites Based on Poly(propylene 2,5-furan dicarboxylate) and Aluminosilicate Clays

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Received: date; Accepted: date; Published: date

Supplementary Materials

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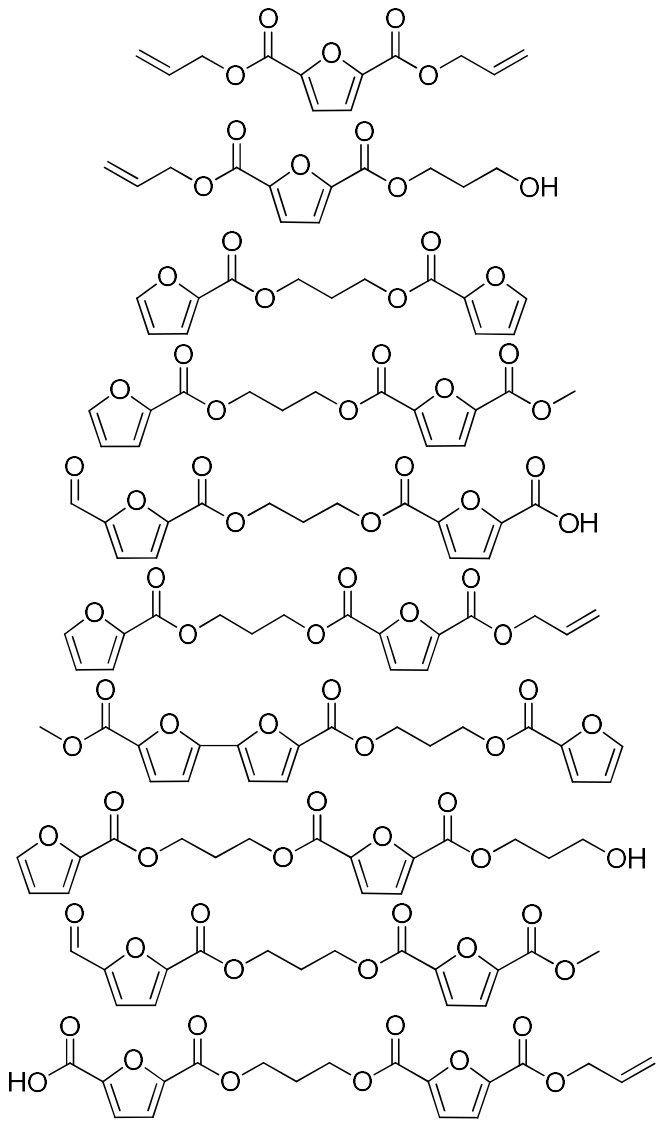
1 **Table S 1.** Identified possible pyrolysis products of PPF and its nanocomposites.

PPF		PPF/MMT		PPF/MMT 20A		PPF/HNT			
Rt (min)		Rt (min)		Rt (min)		Rt (min)			**Possible product**
360 ° C	400 ° C	360 ° C	400 ° C	360 ° C	400 ° C	360 ° C	400 ° C	Mw (amu)	
-	0.24	0.17	-	-	0.32	-	0.11	44	CO_2 or acetaldehyde
0.55	-	-	-	-	-	0.56	-	76	1,3-propanediol
1.36	1.36	1.36	-	1.36	1.36	1.36	1.36	44	CO_2 or acetaldehyde
-	1.8	-	1.66	-	-	-	-	68	
6.74	7.02	6.82	7.20	7.03	7.01	-	7.12	112	
7.33	7.35	7.36	7.41	7.34	-	-	7.33	152	
11.09	11.09	11.15	11.18	11.10	-	-	-	162	
-	11.16	-	11.27	-	-	-	11.16	170	
									or
-	12.51	-	12.53	-	-	-	12.50	190	
-	13.88	13.90	14.26	14.08	-	14.24	14.16	196	

14.52	14.57	14.57	14.65	14.58	14.49	14.61	14.58	236
-	-	17.67	17.81	-	-	-	-	254
17.89	17.91	17.95	18.01	18.00	17.81	17.98	17.97	264
20.22	-	20.24	-	20.27	-	20.27	-	322
21.52	21.54	21.56	21.59	21.56	21.58	21.57	21.58	336
22.69	22.73	22.77	22.91	22.82	22.61	22.96	22.75	348
24.42	24.50	24.45	24.52	24.49	24.51	24.55	24.52	388
25.18	25.19	25.21	25.26	25.23	-	25.25	25.20	366
25.31	25.32	25.35	25.40	25.36	-	25.38	25.33	350
25.88	25.85	25.99	26.05	26.01	25.76	25.90	25.87	392



26.38	26.43	26.48	26.63	26.52	26.32	26.71	26.54	432
27.28	27.25	27.29	27.39	27.33	-	27.43	27.28	436
28.37	-	28.45	-	28.53	28.44	28.61	28.48	488
29.97	29.98	-	-	-	-	-	-	460