

Supporting Information

Crystalline Structures and Transitions of Poly(phthalazinone ether sulfone)/MC Nylon 6 Composites

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Table S1. Fitting results of FTIR curves of samples treated with I₂/KI solution in different time

Samples	Treatment time in I ₂ /KI solution (min)	A ₉₁₄	A ₉₂₈	A ₉₆₀	A ₉₇₆	A ₉₇₆ /A ₉₂₈	A ₉₁₄ /A ₉₆₀
0.0 wt%	0	0.00	2.39	3.62	1.82	0.76	0.00
	5	0.77	0.12	0.87	6.86	55.79	0.89
	10	0.79	0.08	0.67	7.67	93.49	1.18
	30	0.83	disappear	0.56	7.82	#VALUE!	1.46
	60	0.84	disappear	0.44	7.85	#VALUE!	1.92
	120	0.87	disappear	0.38	8.08	#VALUE!	2.32
	1440	1.01	disappear	0.41	8.91	#VALUE!	2.43
0.5 wt%	0	0.00	1.59	1.89	1.37	0.86	0.00
	5	0.38	0.70	0.99	5.70	8.11	0.39
	10	0.45	0.59	0.87	6.63	11.25	0.52
	30	0.50	0.26	0.43	5.71	22.17	1.18
	60	0.47	0.24	0.39	5.70	24.18	1.21
	120	0.53	0.20	0.40	5.59	27.77	1.34
	1440	0.51	0.11	0.24	5.15	47.87	2.16
2.0 wt%	0	0.00	1.10	1.58	0.89	0.81	0.00
	5	0.00	0.51	0.73	2.57	5.05	0.00
	10	0.42	0.43	1.42	3.15	7.30	0.30
	30	0.47	0.32	0.95	4.12	13.05	0.50
	60	0.50	0.27	0.98	5.00	18.59	0.51
	120	0.31	0.22	0.56	4.34	19.91	0.55
	1440	0.27	0.13	0.40	2.76	21.58	0.66
4.0 wt%	0	0.00	2.43	2.62	1.71	0.70	0.00
	5	0.00	1.41	1.56	3.50	2.49	0.00
	10	0.36	0.96	1.22	5.20	5.43	0.29

	30	0.43	0.69	0.92	5.60	8.11	0.47
	60	0.47	0.70	0.98	6.07	8.61	0.48
	120	0.51	0.63	0.79	6.61	10.48	0.64
	1440	0.49	0.36	0.54	5.51	15.28	0.91
	0	0.00	1.38	1.72	1.05	0.76	0.00
	5	0.08	0.72	0.90	2.42	3.38	0.09
	10	0.22	0.60	0.91	3.69	6.11	0.24
6.0 wt%	30	0.22	0.38	0.59	2.51	6.53	0.37
	60	0.27	0.36	0.53	2.81	7.77	0.52
	120	0.28	0.27	0.45	2.76	10.14	0.64
	1440	0.37	0.36	0.44	4.44	12.22	0.85
