

**Table 1.** The obtained parameters for the modified Burgers' model for different alginate composite systems at 60 °C, see also Figure 7.

Composition		$J_0$ (GPa <sup>-1</sup> )	$J_1$ (GPa <sup>-1</sup> )	$\tau$ (s)	$n$	$J_2$ (TPa <sup>-1</sup> s <sup>-1</sup> )
Polymer	Filler (wt%)					
Na- Alg/GO	0.0	0.27	4.8	22.7	0.20	0.32
	1.0	0.24	5.1	2.2	0.14	1.50
	6.3	0.18	6.2	13.7	0.17	0.47
	11.8	0.14	3.7	14.7	0.26	0.48
	25.0	0.07	1.8	35.5	0.39	1.50
Ca- Alg/rGO	0.0	0.081	2.5	13.2	0.45	1.60
	1.0	0.76	3.0	9.7	0.44	2.00
	6.3	0.16	2.9	7.6	0.40	0.91
	11.8	0.01	2.1	8.7	0.44	0.67
	25.0	0.19	0.9	16.5	0.47	0.67
Ba- Alg/rGO	0.0	0.10	1.8	16.7	0.48	1.10
	1.0	0.09	1.6	15.8	0.36	0.60
	6.3	0.08	1.1	21.8	0.42	0.66
	11.8	0.07	1.3	15.7	0.44	0.80
	25.0	0.14	1.7	11.2	0.43	0.69