

Flexible capron toughened epoxy/graphene nanocomposites for high k dielectric and ultra violet radiation resistant application

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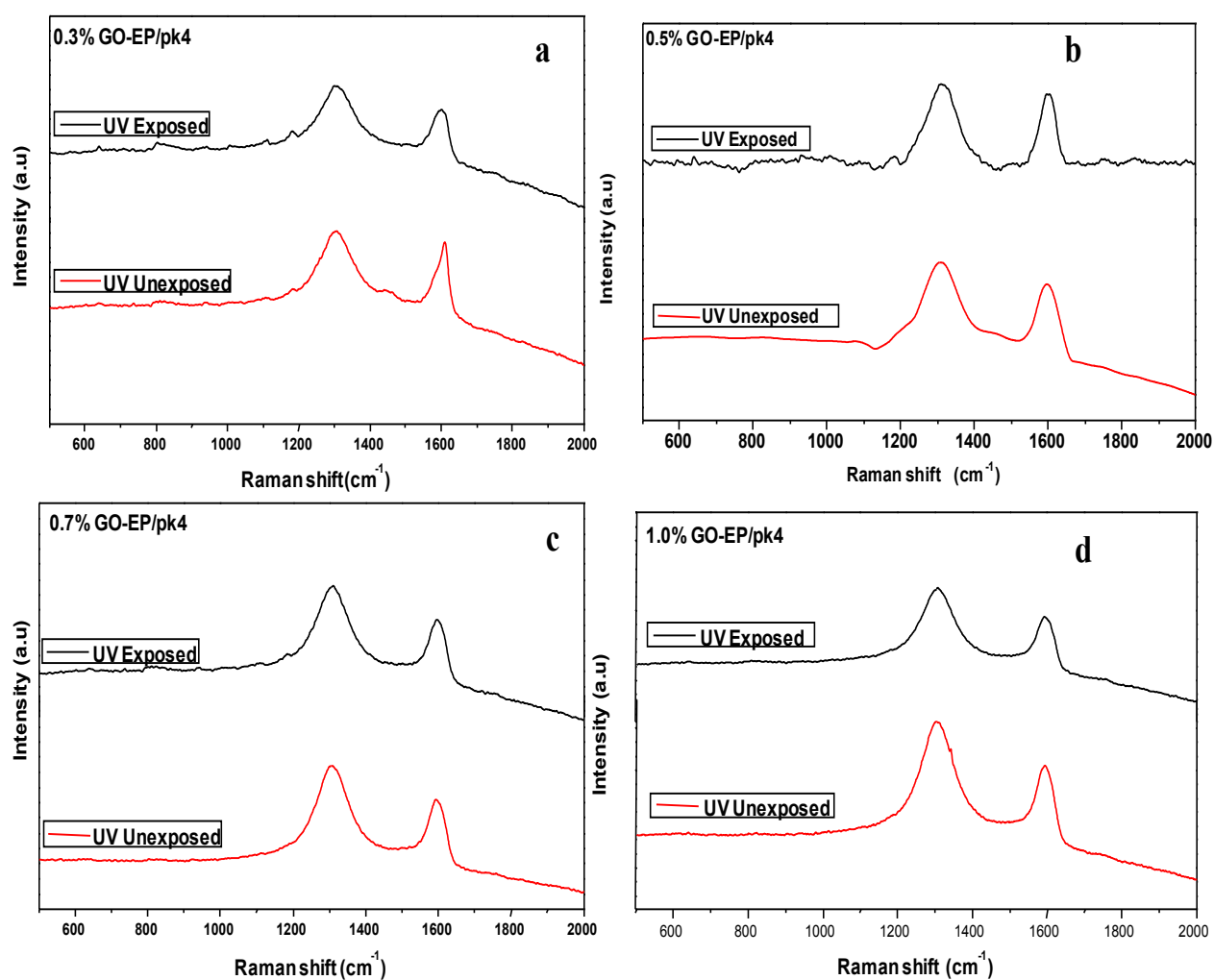


Figure. S1. Raman Spectra of (a) 0.3 % GO- EP/pk4, (b) 0.5% GO -EP/pk4, (c) 0.7 % GO - EP/pk4 and (d) 1.0 % GO -EP/pk4 nanocomposites.

Table S2 Dielectric constant, Tensile strength and I_G/I_D of neat EP/pk4 and GO reinforced EP/pk4 nanocomposites

Sample	Dielectric Constant (K) at 1MHz	Tensile strength (MPa)		I_G/I_D	
		UV un exposed samples	UV exposed samples	UV un exposed samples	UV un exposed samples
neat EP/Pk4	3.91	29.97	15.49	-	-
0.1% GO- EP/Pk4	4.94	39.02	22.60	-	-
0.3% GO- EP/Pk4	5.24	54.36	36.89	0.95	0.92
0.5% GO- EP/Pk4	6.82	63.42	49.44	0.91	0.90
0.7% GO- EP/Pk4	11.01	76.67	66.18	0.88	0.84
1.0% GO- EP/Pk4	6.10	40.56	37.86	0.85	0.82