

Supplementary Information

Depression in glass transition temperature of multiwalled carbon nanotubes reinforced polycarbonate composites: Effect of functionalization

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Table S1: Storage modulus parameters of PC composite material

S.No.	System	Storage Modulus E' (MPa)	
		40°C	180°C
1	Pure PC	1050	3
2	0.5 wt. % MWCNT/PC	1152	7
3	1 wt. % MWCNT/PC	1254	9
4	2 wt. % MWCNT/PC	1378	13
5	2 wt. % a-MWCNT/PC	1652	15
6	5 wt. % MWCNT/PC	1630	28
7	10 wt. % MWCNT/PC	1910	51

Table S2: Glass Transition Temperature parameters of composite material

S.No.	System	Glass Transition Temperature (°C)	
		Storage Modulus	Tan Delta
1	Pure PC	145.30	160.20
2	0.5 wt. % MWCNT/PC	145.00	159.40
3	1 wt. % MWCNT/PC	144.50	159.00
4	2 wt. % MWCNT/PC	144.00	158.50
5	2 wt. % a-MWCNT/PC	143.70	158.10
6	5 wt. % MWCNT/PC	143.26	157.50
7	10 wt. % MWCNT/PC	141.90	157.00

Table S3: XRD peaks of as produced MWCNTs and acid modified MWCNTs

As produced MWCNT (2 θ)	26	41.5	42.8	44.4	78 (minor hump)
Plane	C(002)	C(100)	C(101)	Fe(011)	C(110)
Acid modified MWCNT (2 θ)	26	42.8	43.6	44.7	78 (minor hump)
Plane	C(002)	C(100)	C(101)	Fe(011)	C(110)