

Supplementary material

Table S1: Surface free energy of the test wetting liquids used

Wetting liquids	γ_L (mJ m ⁻²)	γ_L^L (mJ m ⁻²)	γ_L^{SP} (mJ m ⁻²)
Distilled water	72.8	21.8	51.0
Diiodomethane	50.8	50.4	0.4
Ethylene glycol	47.7	31.0	16.7

Table S2: The DCAs of BFs/epoxy and OBFs/epoxy composites

Specimens	Contact angle (θ)		
	Distilled water	Diiodomethane	Ethylene glycol
20 wt% BFs/epoxy	77.2 ± 0.3	48.4 ± 0.3	51.6 ± 0.7
40 wt% BFs/epoxy	75.4 ± 0.1	46.7 ± 0.3	50.8 ± 0.8
60 wt% BFs/epoxy	73.8 ± 0.2	44.8 ± 0.4	50.2 ± 0.7
80 wt% BFs/epoxy	76.5 ± 0.4	47.8 ± 0.9	51.3 ± 0.9
20 wt% OBFs/epoxy	74.6 ± 0.3	45.8 ± 0.2	50.3 ± 0.6
40 wt% OBFs/epoxy	72.1 ± 0.2	43.2 ± 0.1	49.7 ± 0.7
60 wt% OBFs/epoxy	69.7 ± 0.2	40.6 ± 0.1	49.1 ± 0.5
80 wt% OBFs/epoxy	72.9 ± 0.4	44.6 ± 0.7	50.3 ± 0.8