

Rapid Prototyping of Efficient Electromagnetic Interference Shielding Polymer Composites via Fused Deposition Modeling

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Supplementary Materials:

Transmission electron microscopy (TEM) analysis and electromagnetic interference (EMI) shielding efficiency (SE) of selected acrylonitrile-butadiene-styrene composites with graphene nanoplatelets (ABS/GNP) and carbon nanotubes (ABS/CNT): filaments, compression molded plates and samples produced by fused deposition modeling (FDM) built up in different direction : perpendicular concentric (PC), horizontal concentric (HC) and horizontal alternate (H45).

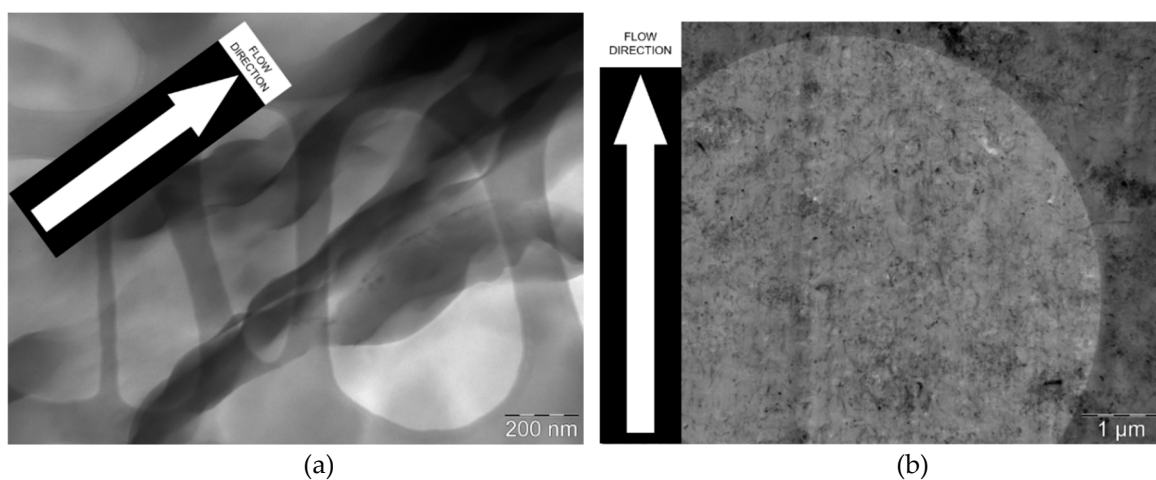


Figure S1. TEM micrograph of filaments in parallel: ABS/GNP (a) and ABS/CNT (b) nanocomposites.

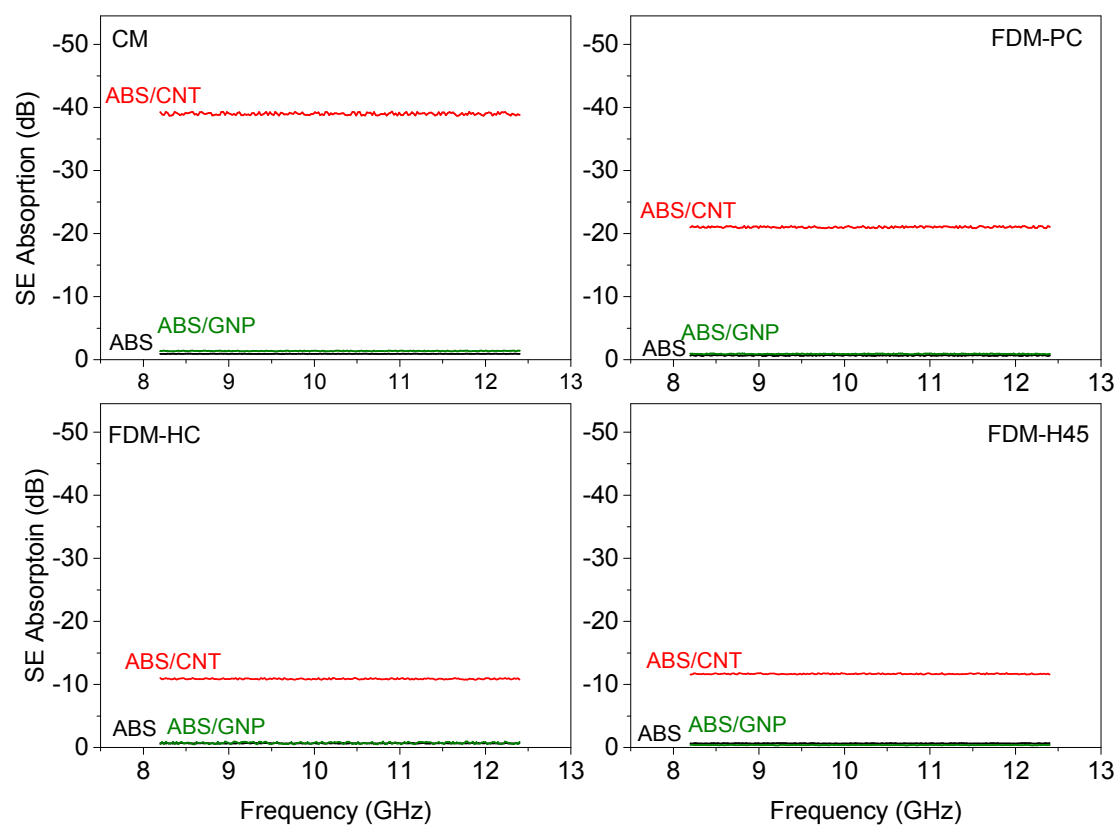


Figure S2. EMI shielding by absorption of ABS and composites: compression moulded (**upper left graph**), FDM-PC (**upper right graph**), FDM-HC (**lower left graph**) and FDM-H45 (**lower right graph**).

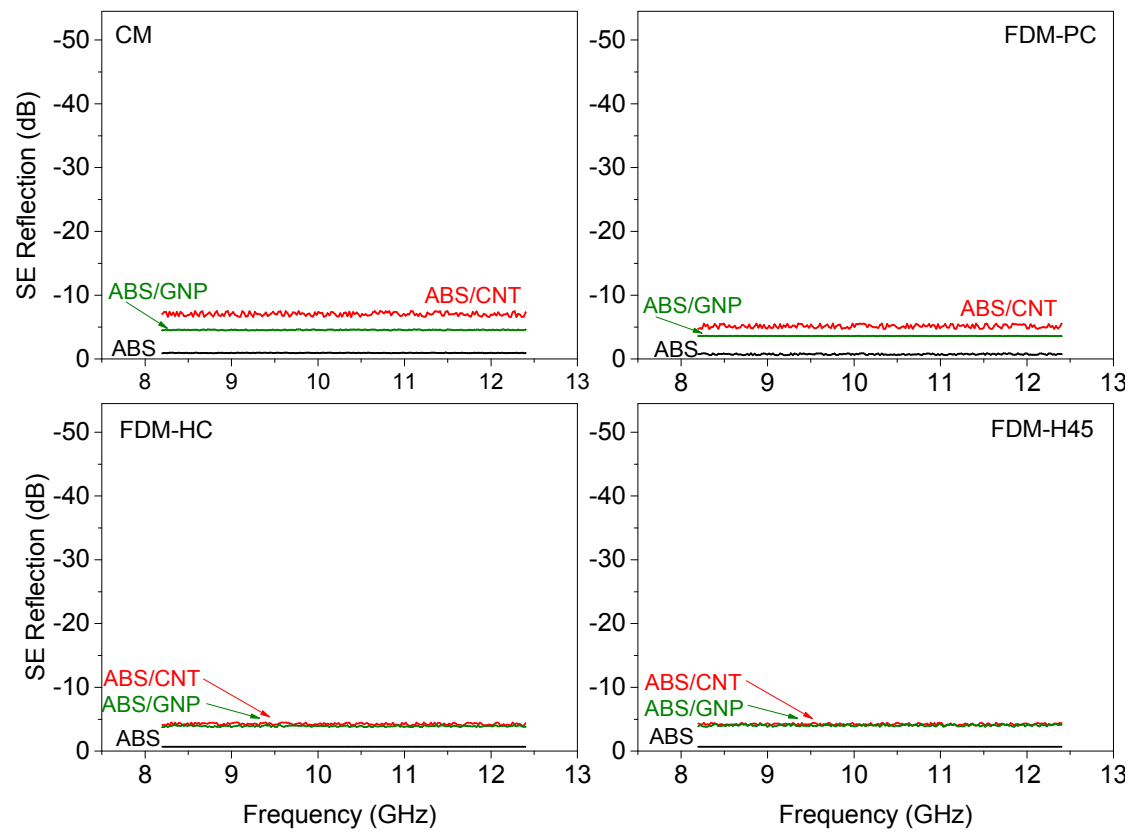


Figure S3. EMI shielding by reflection of ABS and composites: compression moulded (**upper left graph**), FDM-PC (**upper right graph**), FDM-HC (**lower left graph**) and FDM-H45 (**lower right graph**).