Supplementary Materials:

Non-isothermal crystallization behavior of PEEK/Graphene nanoplatelets composites from melt and glass states

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Figure S1. DSC thermographs during heating and cooling of a) neat PEEK, b) PEEK/GNP (1wt.%), c) PEEK/GNP (5wt.%) and d) PEEK/GNP (10wt.%).
Figure S2. DSC thermographs during heating of amorphous samples a) neat PEEK, b) PEEK/GNP (1wt.%), c) PEEK/GNP (5wt.%) and d) PEEK/GNP (10wt.%).
Figure S3. Relative crystallinity against temperature for all samples: a) neat PEEK, b) PEEK/GNP (1wt.%), c) PEEK/GNP (5wt.%) and d) PEEK/GNP (10wt.%).
Figure S4. Relative crystallinity against temperature for all the samples crystallized from melt: a) neat PEEK, b) PEEK/GNP (1wt.%) and c) PEEK/GNP (5wt.%).
Figure S5. Ozawa plots of log(-ln(1-X_C(T))) against log β for a) neat PEEK b) PEEK/GNP (1wt.%), c) PEEK/GNP (5wt.%) and d) PEEK/GNP (10wt.%) samples crystallized from melt.
Figure S6. Ozawa plots of log (-ln(1-XC(T))) against log(β) for a) neat PEEK b) PEEK/GNP (1wt.%), c) PEEK/GNP (5wt.%) and d) PEEK/GNP (10wt.%) samples crystallized from glass.
Figure S7. Modified Avrami plots at various heating rates. a) neat PEEK, b) PEEK/GNP (1wt.%) and c) PEEK/GNP (5wt.%).
Figure S8. SAXS synchrotron profiles corresponding for a) PEEK/GNP (1wt.%), b) PEEK/GNP (5wt.%), and c) PEEK/GNP (10wt.%) samples crystallized from melt. Samples crystallized from glass: d) PEEK/GNP (1wt.%), e) PEEK/GNP (5wt.%), and f) PEEK/GNP (10wt.%).