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Title: Effect of interphase percolation on mechanical behavior of nanoparticle-reinforced polymer nanocomposite with filler agglomeration: A multiscale approach

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- Interphase characteristic is investigated near the agglomerated fillers.
- Degradation mechanism is considered in the proposed multiscale framework.
- Overlapping density is introduced as a key index of the proposed multiscale model.
- For multi-particulate system, the proposed multiscale framework is applicable.

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