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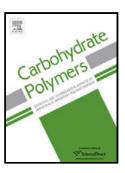
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Highlights

- 1. CNCs and CNFs reinforced PHBV composites are prepared with melt compounding.
 - 2. CNFs lead to a higher thermal stability of PHBV composites than CNCs.
 - 3. CNCs could act as a better nucleating agent for PHBV than CNFs.
- 4. CNCs and CNFs show reinforcing effects in PHBV composites with low content.

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