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Tannic acid derived non-isocyanate polyurethane networks: Synthesis, curing kinetics, antioxidizing activity and cell viability

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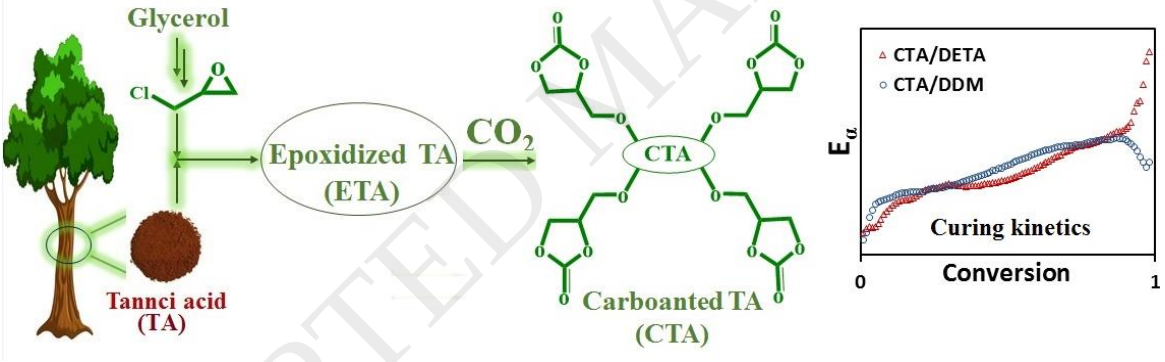
Graphical Abstract



Highlights

- A novel bio-based non-isocyanate polyurethane (NIPU) was synthesized from tannic acid.
- Thermal degradation kinetics of the bio-based resin was differed when aliphatic or aromatic amines were used.
- The pyrolysis/GC-MASS was used to evaluate the thermally degraded materials derived from NIPU.