**Table S1:** The thermal properties of corn starch/PVA and glycerol composite films crosslinked with citric acid (CA) in varied levels (0, 0.10, 0.15., and 0.20% (w/w), respectively).

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Treatments | Thermal Properties | | | | |
|  | Weight Loss, % | T\_onset, oC | T\_endset, oC | T\_peak, oC | Heat, mcal/g |
| CS/GLY-CA 0 | 58.85 | 291.79 | 319.27 | 309.99 | 245.24 |
| CS/GLY-CA 0.10 | 44.46 | 290.89 | 319.27 | 306.39 | 311.13 |
| CS/GLY-CA 0.15 | 43.98 | 295.83 | 321.48 | 310.08 | 367.68 |
| CS/GLY-CA 0.20 | 42.24 | 299.36 | 330.75 | 316.86 | 389.39 |
| CS/PVA-CA 0 | 46.77 | 303.64 | 333.08 | 320.79 | 347.60 |
| CS/PVA-CA 0.10 | 44.40 | 298.25 | 319.76 | 314.84 | 51.10 |
| CS/PVA-CA 0.15 | 42.64 | 293.01 | 323.04 | 321.45 | 52.72 |
| CS/PVA-CA 0.20 | 39.63 | 312.40 | 331.08 | 324.04 | 105.77 |