# Supplementary Materials:

# Influence on elastic wave propagation behavior in polymers composites: An analysis of inflection phenomena

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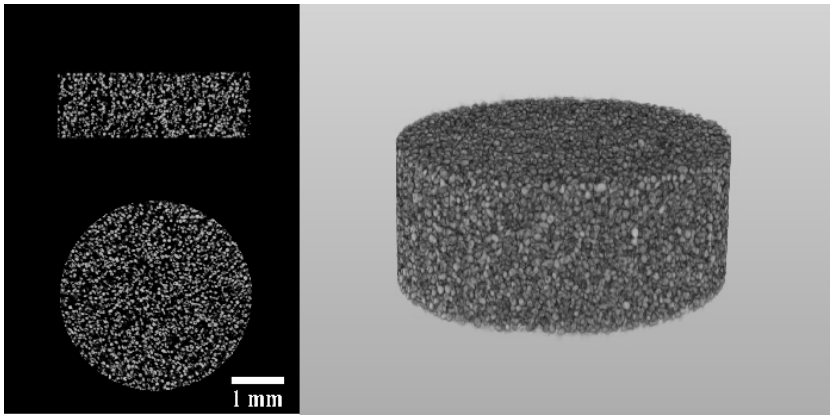


**Figure S1.** C.T. Scan results for Cu/PMMA composites

**Table S1.** Preparation and actual content of Cu/PMMA composites

| Design content (vol. %) | Particle size (μm) | Mixing temperature (℃) | Mixing Time (min) | Hot pressing temperature (℃) | Hot pressing times (min) | Actual content (vol. %) | Error value (%) |
|---|---|---|---|---|---|---|---|
| | 1 | | | | | 29.27 | 2.43 |
| 30 | 10 | 210 | 20 | 200 | 70 | 29.77 | 0.77 |
| | 100 | | | | | 29.14 | 2.87 |
| | 1 | | | | | 40.12 | -0.30 |
| 40 | 10 | 210 | 20 | 200 | 70 | 40.71 | -1.78 |
| | 100 | | | | | 41.28 | -3.20 |
| | 1 | | | | | 53.74 | 2.29 |
| 55 | 10 | 210 | 20 | 200 | 70 | 54.22 | 1.42 |
| | 100 | | | | | 53.76 | 2.25 |
| | 1 | | | | | 65.22 | -0.34 |
| 65 | 10 | 220 | 20 | 210 | 100 | 66.78 | -2.74 |
| | 100 | | | | | 67.01 | -3.09 |