

## Supporting information

Table S1: Mixing energies required to process nanocomposites with different fillers.

Sample	Energy (kJ)
200 MP – 80 phr	80
Sepiolite – 80 phr	55
Stöber – 80 phr	50
200 MP/ Sepiolite – 70/10	75
200 MP/ Sepiolite– 60/20	73
200 MP/ Sepiolite– 50/30	68
200 MP/ Stöber– 70/10	68
200 MP/ Stöber – 60/20	63
200 MP/ Stöber – 50/30	58