

Table S1: Tensile strength (TS) properties of chitosan bio-based films prepared from non-sonicated chitosan (NS) and nano-sized chitosan sonicated at increasing times – 5 min( $S_{5\text{ min}}$ ) – and NS/S blends.

c	Mixing ratio	TS / MPa
NS	-	82.2±1.0
NS/ $S_{5\text{ min}}$	7:3	61.7±3.7
	1:1	64.2±5.3
	3:7	100.6±7.4
$S_{5\text{ min}}$	-	56.0±6.7

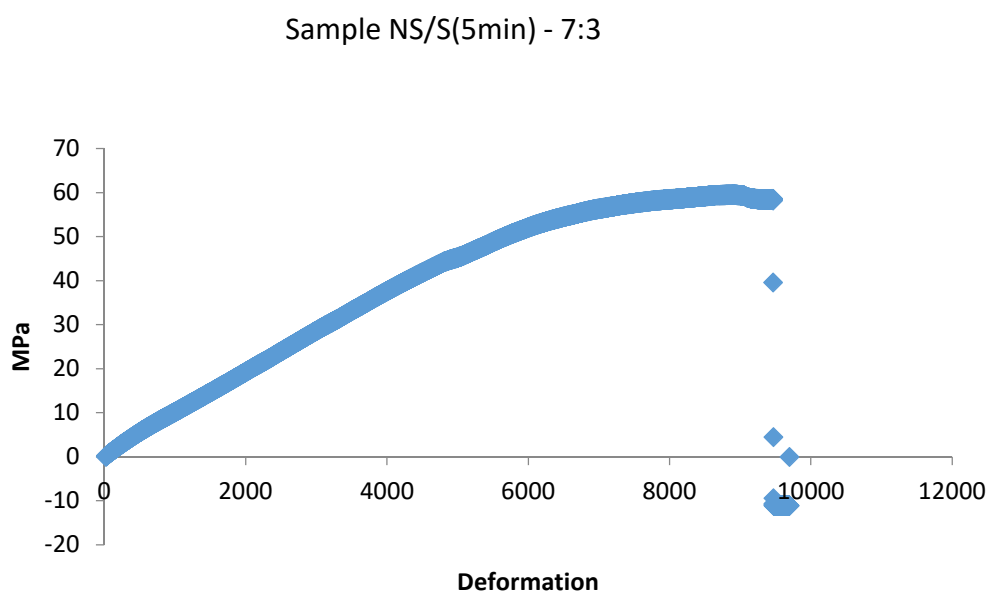


Figure S1: Stress curve for the sample Sample NS/S(5min)—7:3.