



Hexagonal Boron Nitride as Filler for Silica-Based Elastomer Nanocomposites

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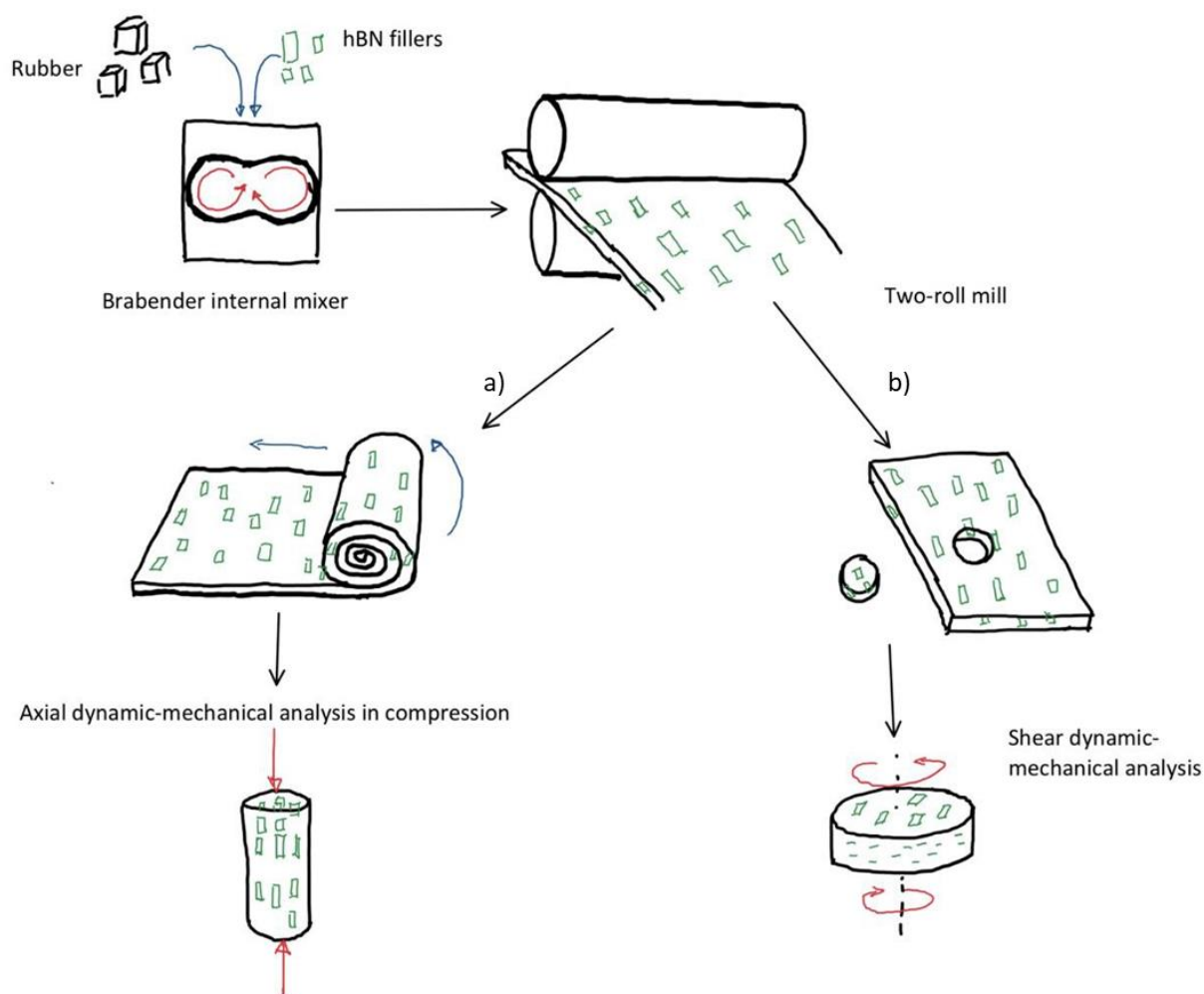


Figure S1. Procedures for the preparation of specimens for axial dynamic-mechanical analyses (a) and shear dynamic mechanical analyses (b).

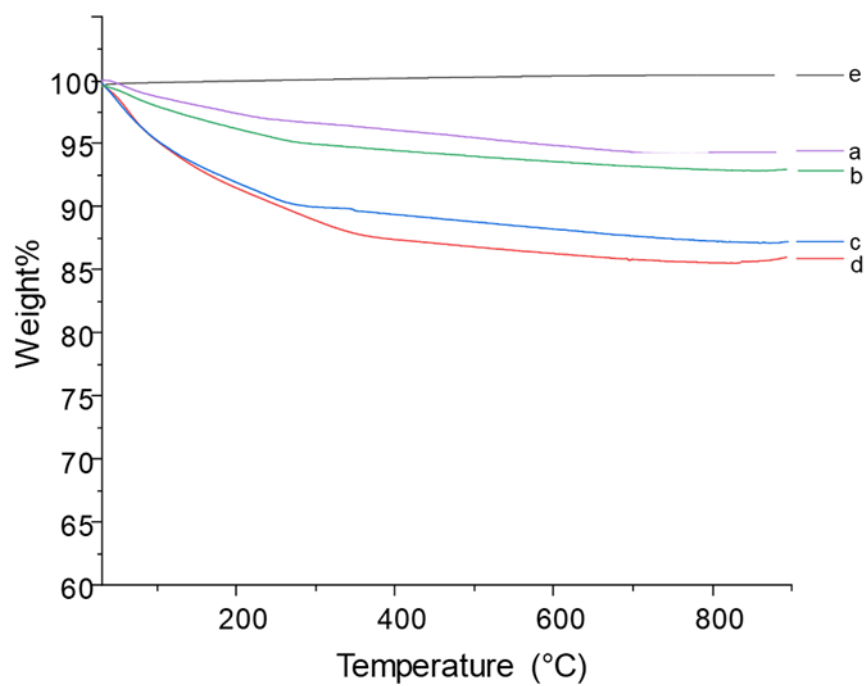


Figure S2. TGA thermograms under air of hBN-OH_{as5h} (a); hBN-OH_{w5h} (b); hBN-OH_{as10h} (c) and hBN-OH_{w10h} (d). Pristine hBN (e).

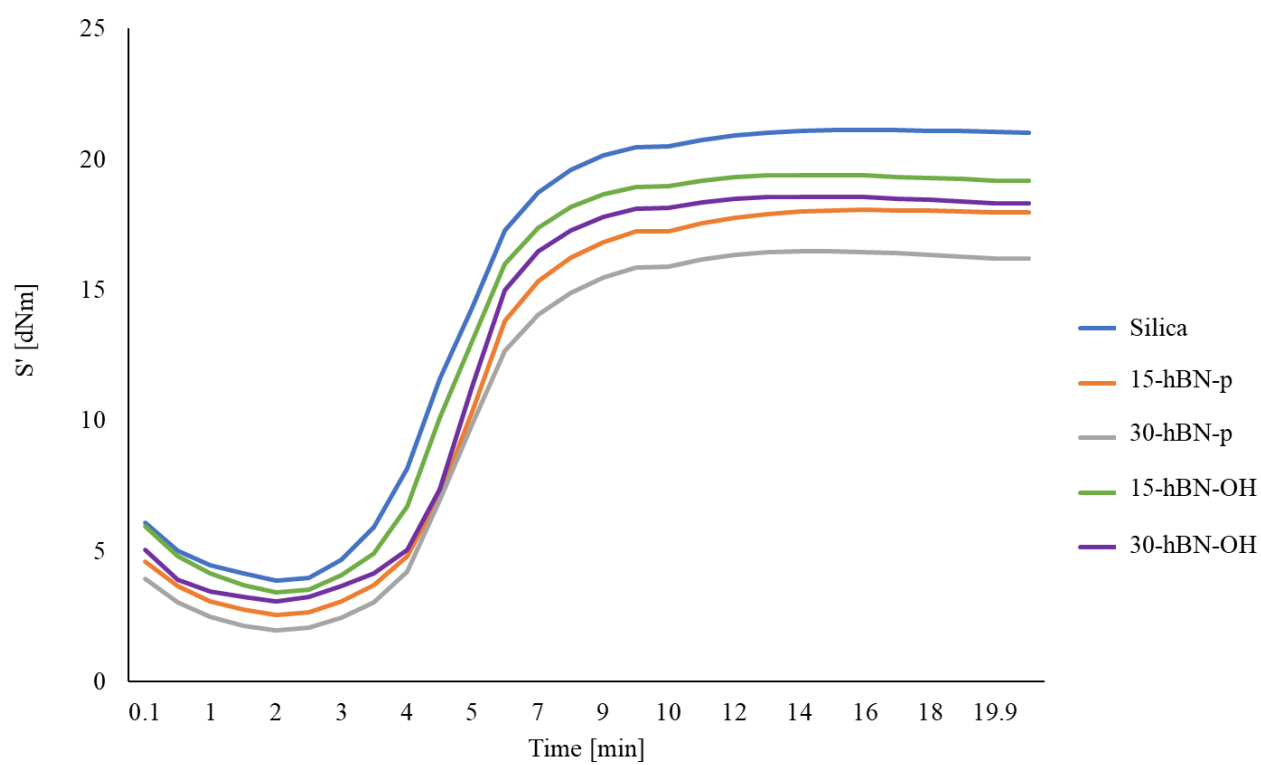


Figure S3. Crosslinking curves of composites of Table 1.

Table S1. Shear dynamic-mechanical properties from strain sweep experiments of composites of Table 1.

	Silica	15-hBN-p	30-hBN-p	15-hBN-OH	30-hBN-OH
$G'_{\gamma_{\min}}$ [MPa]	2.40	1.76	1.40	2.17	1.90
$G'_{\gamma_{\max}}$ [MPa]	1.28	1.08	0.97	1.18	1.09
$\Delta G'$ [MPa]	1.11	0.69	0.43	0.99	0.81
$\Delta G'/G'_{\gamma_{\min}}$	0.46	0.39	0.31	0.46	0.43
G''_{\max} [MPa]	0.18	0.14	0.09	0.15	0.14
$\tan\delta_{\max}$	0.11	0.10	0.08	0.11	0.09

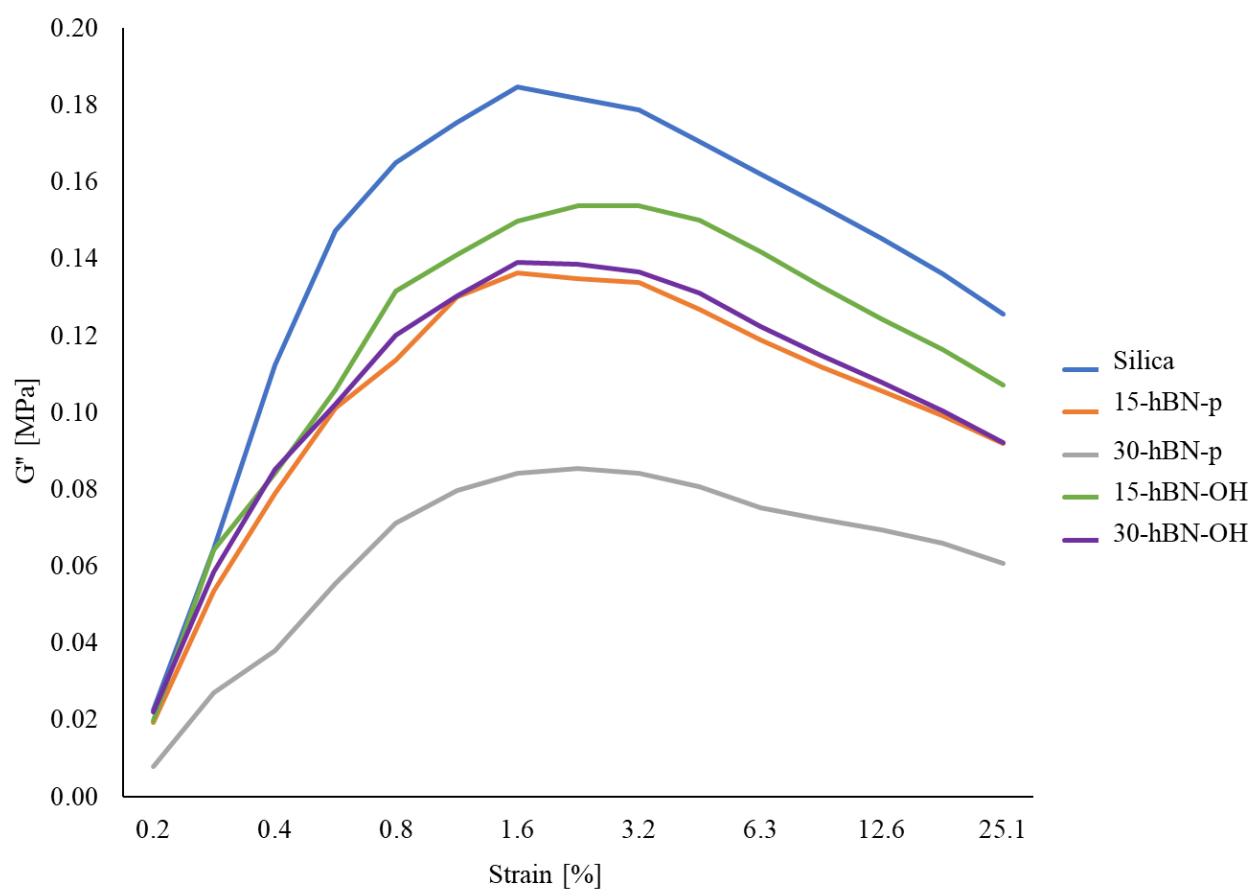


Figure S4. G'' vs strain for composites of Table 1.

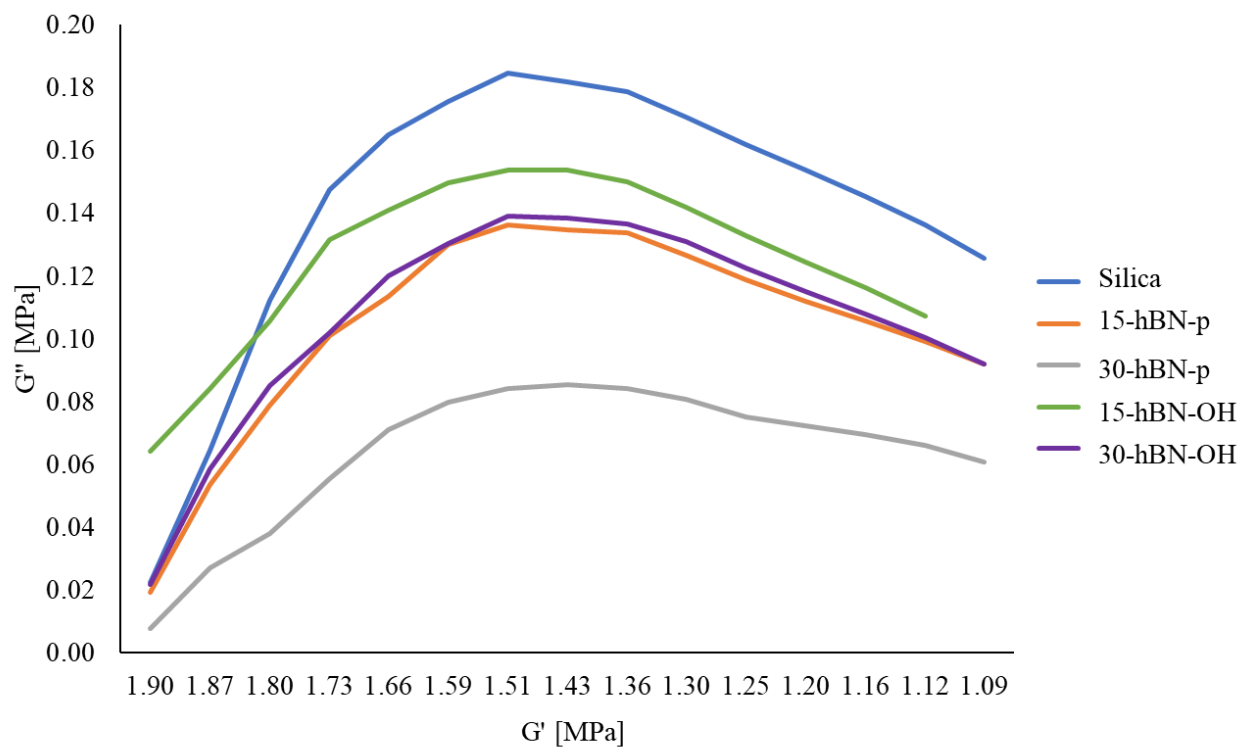


Figure S5. G plot for for composites of Table 1.

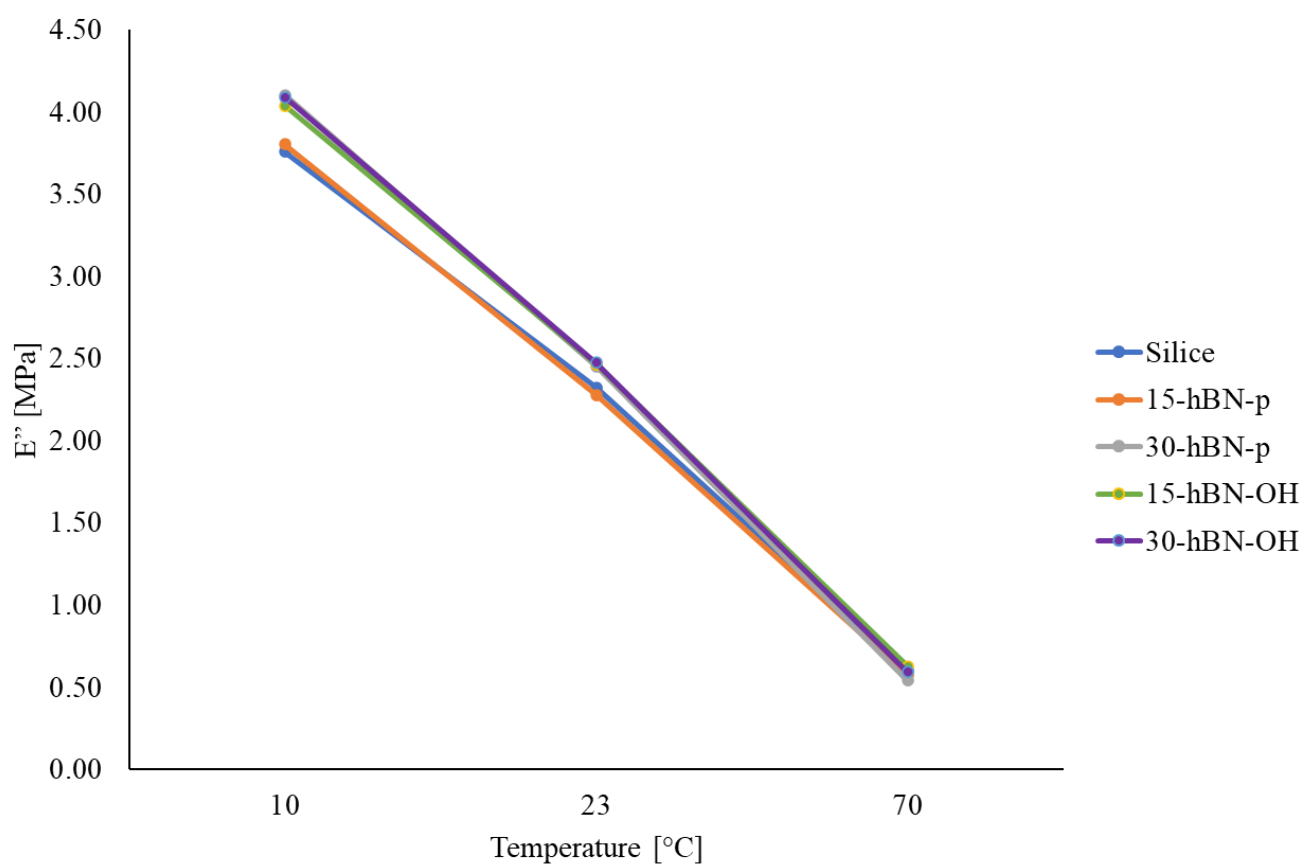


Figure S6. E'' vs Temperature for for composites of Table 1.