Thermo-mechanical and surface properties of POSS reinforced structurally different diamines cured epoxy nanocomposites.

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Notes
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Scheme S1a Synthesis of CPA diamine

Scheme S1b Synthesis of OMA diamine

Scheme S1c Synthesis of BPA diamine

Scheme S1 (a-c). Schematic representation for synthesis of CPA, OMA and BPA diamines
Figure S2a: $^1$H NMR spectra of $N$, $N'$-(4,4'-methylenebis(4,1-phenylene))bis(6-aminohexanamide) (CPA)
Figure S2b: $^1$H NMR spectra of 1, 8-bis (4-aminophenoxy) octane (OMA)
Figure S2c: $^1$H NMR spectra of 4-(4-(2-(4-(4-aminophenoxy) phenyl) propan-2-yl) phenoxy) benzenamine (BPA)
Figure S3a: $^{13}$C NMR spectra of N, N'-(4,4'-methylenebis(4,1-phenylene))bis(6-aminohexanamide) (CPA)
Figure S3b: $^{13}$C NMR spectra of 1, 8-bis (4-aminophenoxy) octane (OMA)
Figure S3c: $^{13}$C NMR spectra 4-(4-(2-(4-(4-aminophenoxy) phenyl) propan-2-yl) phenoxy) benzenamine (BPA)