**Article Type (Research Letter-Supplementary Material)**

Thermo-Mechanical and Swelling Properties of 3D-printed Poly (Ethylene Glycol) Diacrylate (PEGDA)/ SiO2 Nanocomposites

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FIG. S1 Set-up for the Tensile Test showing the sample clamped on both ends by the upper and lower gripping part of the testing machine.

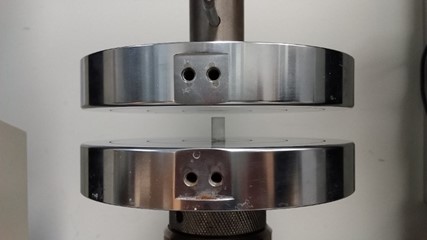


FIG. S2 Set-up for the Compression Test showing the sample clamped on both ends by the upper and lower gripping part of the testing machine.

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a)

C:\Users\Kokoy\Desktop\CWRU Files\SLA PEGDA Research\for MRS Communications\August 2018 - for REsubmission\Figures for MRS Communications - revised\Fig S3b.tif

b)

FIG. S3 FTIR spectra of unfilled PEGDA, PEGDA/SiO2 nanocomposite and SiO2 powder; a) whole spectra from 400 cm-1 to 4,000 cm-1; b) enlarged view showing SiOH bending at ~ 960 cm-1.

Table S1 Temperature Values for 10% and 90% Weight Loss

|  |  |  |
| --- | --- | --- |
| SiO2 content (%) | Temperature values for 10% Weight Loss (°C) | Temperature values for 90% Weight Loss (°C) |
| 0 | 338 | 438 |
| 1 | 338 | 440 |
| 3 | 352 | 449 |
| 5 | 385 | 458 |