



## ADDITIVE MANUFACTURING CONTEST

Q. What is the density of the printing material?

A. The material density is 1.04-gm/cm<sup>3</sup>. It is listed on the datasheet as specific gravity.

Q. What address would I sent my design submissions to for the 3D printing competition?

A. Send submissions to [AdditiveManufacturingContest@sampe.org](mailto:AdditiveManufacturingContest@sampe.org) until directed otherwise.

Q. I was wondering how group submissions will be handled?

A. Since this is a relatively simple design contest, submissions were anticipated to be individual. Awards will only be issued to individuals. If a submission is a collaborative work, it is the responsibility of the submitter to appropriately recognize those who participated in the design.

Q. I was wondering what rate will be applied during the compression loading or the ASTM standard that will be used?

A. Loading rate will be 1.3-mm/min (0.050-in/min). This is reflective of ASTM D695.

Q. One of the requirements is to have an aspect ratio of 2:1 and the maximum width is 6 inches in diameter, doesn't that mean that the maximum allowable height would be 12 inches instead of 36 inches?

A. The 2:1 aspect ratio is intended to be a minimum. The requirement needs to be updated. Columns with 3:1, 4:1 or greater aspect ratios will be allowed. Sorry for the confusion.

Q. What will be the layer resolution and the infill for the printed parts? Also, is it going to be consistent for all the entries?

A. The layer resolution (thickness) is .01-inch for the uPrint machine. The interior fill style will be solid fill. These settings will be consistent for all entries.