

Assembly Types

1: Middle, initial fiberglass

2: Top (above surface), initial fiberglass

3: Top (below surface), initial fiberglass

4: Bottom (above surface), initial fiberglass

5: Bottom (below surface), initial fiberglass

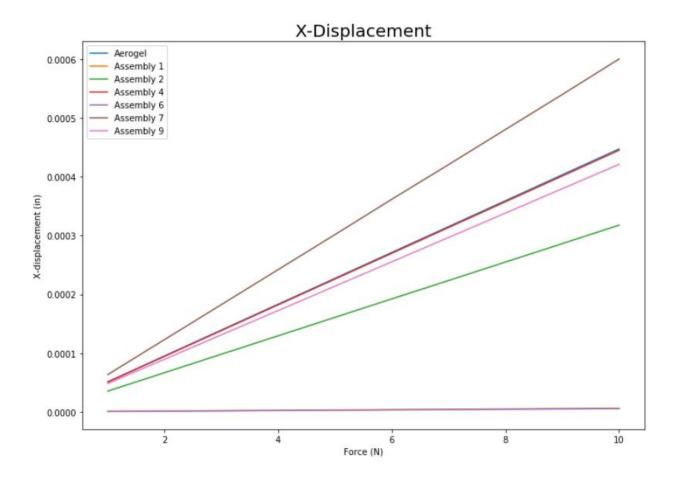
6: Middle, 2.15 in fiberglass

7: Top (above surface), 2.15 in

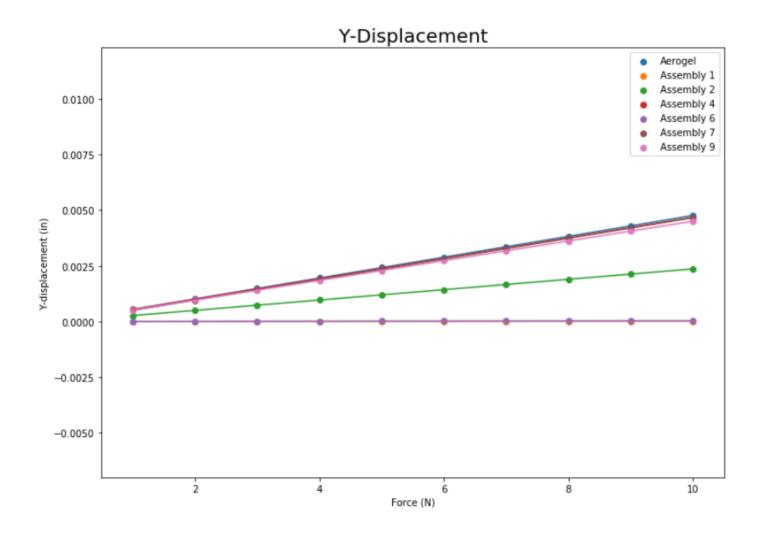
8: Top (below surface), 2.15 in

9: Bottom (above surface), 2.15 in

10: Bottom (below surface), 2.15 in

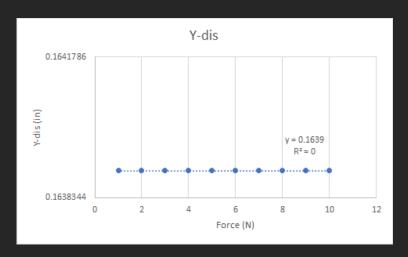


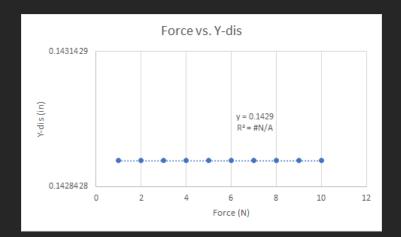
X-Displacement

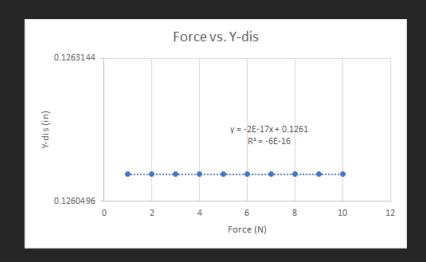


Y-Displacement









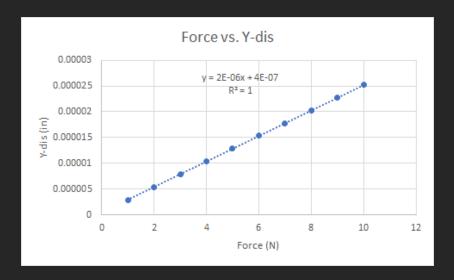
Omitted (glue for later)

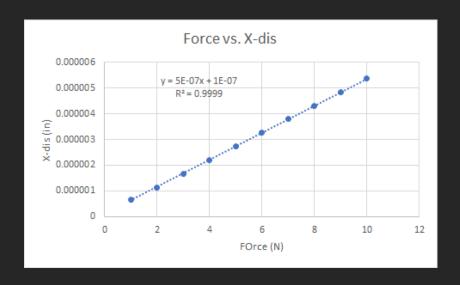
- No change in y-displacement.
- Most likely due to separation of fiberglass and aerogel

- Assembly: 3, 5, 8, 10
- Below surface (top and bottom)

Ideal Fiberglass Location

- Assembly 6 had the smallest change in both X and Y displacements.
- Less likely to break with increased force.
- Middle of gel with 2.15 in fiberglass.





Outlook

- Test with various fiber properties:
 - Changing fiber density within 10%-90%
 - Various fiberglass dimensions (smaller than 2.15?)
- Glue separated material: 2, 5, 8, 10