

Aerogel for CERN Beam Test

Available aerogel tiles

| Serial Number | Nominal Lateral Tile Size [cm] | Thickness [cm] | Refractive Index (405 nm) |
|---------------|--------------------------------|----------------|---------------------------|
| TSA88-1 | 11 | 2.05 | 1.039 |
| TSA114-3 | 10.99 | 2.51 | 1.0377 |
| TSA120-1 | 10.94 | 2.45 | 1.0404 |
| TSA120-2 | 11.04 | 2.48 | 1.0401 |
| TSA122-1a | 10.71 | 2.03 | 1.0215 |
| TSA112-2a | 10.72 | 2.01 | 1.0215 |
| TSA112-2b | 10.71 | 1.99 | 1.0215 |
| TSA153-2 | 10.75 | 2 | 1.0215 |
| TSA153-3 | 10.68 | 1.99 | 1.0223 |

Four $n \approx 1.04$
aerogel tiles

Aerogel Beam Test Prep Discussion

- Design and fabrication of aerogel holders/filters
 - Current holders are two acrylic plates with center open that sandwich the aerogel
 - How are aerogel tiles (w/frames) to be mounted?
- Aerogel transportation

