

Aerogel Specifications

Data sheet #006

Dispatched on May 20, 2022

Manufactured and measured by M. Tabata



Type	TSA1.05									
Serial number	A01	A02	A03	A04	A05	A06	A07	A08	A09	A10
Block ID	TSA35-1a	TSA35-1c	TSA35-2a	TSA35-2b	TSA35-3b	TSA35-4b	TSA35-5a	TSA35-5b	TSA35-6b	TSA35-7a
Refractive index (at 405 nm)	1.0512	1.0514	1.0515	1.0515	1.0518	1.0515	1.0514	1.0514	1.0517	1.0514
Transmission length (at 400 nm) [mm]	39.0	39.9	41.8	41.5	40.2	40.7	41.5	40.9	40.6	40.8
Transmittance (at 400 nm) [%]	59.7	61.7	61.6	60.3	60.5	61.2	62.1	61.6	60.1	60.5
Block size [mm] *	40	41	40	41	41	40	40	40	40	40
Thickness [mm] **	20.1	19.3	20.3	21.0	20.2	20.0	19.8	19.8	20.7	20.5
Weight [g]	5.75	5.83	5.93	6.21	6.00	5.85	5.70	5.68	5.97	5.92
Density [g/cm ³]	0.180	0.181	0.180	0.180	0.181	0.179	0.180	0.179	0.181	0.183
Remarks	—	—	—	—	—	—	—	—	—	—
File name of transmittance data [.txt]	tsa35-1a	tsa35-1c	tsa35-2a	tsa35-2b	tsa35-3b	tsa35-4b	tsa35-5a	tsa35-5b	tsa35-6b	tsa35-7a

* The block shape is not a perfect rectangular solid due to the use of a handmade mold in wet gel synthesis.

** The actual thickness at the block center was estimated by seeing through the transparent block from the sides.
Due to the meniscus geometry, the blocks have an extra thickness of +1 to 2 mm at the edges.