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Laser scattering particle size distribution analyzer

LA-950v2

Sample Measurement Report



Report pages	2
Data sheets	6

◆ Measurement Conditions

Sample name	Ggraphite powder
Dispersing liquid	Tween20 0.01% aq.
Circulation speed	3
Agitation speed	0
Dispersing condition	Ultra Sonic : 5min,10min
Refractive index (Sample/Dispersant)	1.920 -0.522i / 1.333-0.00i

◆ Measurement procedure

1. Warm up the analyzer for 30 minutes at least.
2. Check the cell is clean. If the cell is not clean, remove the cell and wash with soap and water using a cotton swab.
3. Start up the LA-950 software and set the next measurement conditions.

Select the condition as the follow;

Refractive index : 1.920-0.522i / 1.333

Iteration number : manual, 15

Distribution base : Volume.

Select advanced to put sample information

4. Fill dispersing liquid into the flow system.
Select the dispersing liquid filling level : Low.
Set "Low" level for these samples. Click "de-bubbling" button.
5. Click "Blank" button. Optical alignment is worked automatically.
6. Click "Measure" button. Optical alignment is worked automatically.
If the sample was aggregated, the sample put sonication on 10 minutes.
Then, click "Measure" button.
7. Save data files and print out if it is necessary.
8. Click "Rinse" button to rinse the circulation system for several times with de-ionized Water. Two times number of rinsing is selected.
9. The next consecutive measurement can be started from "3".

◆ Measurement Results

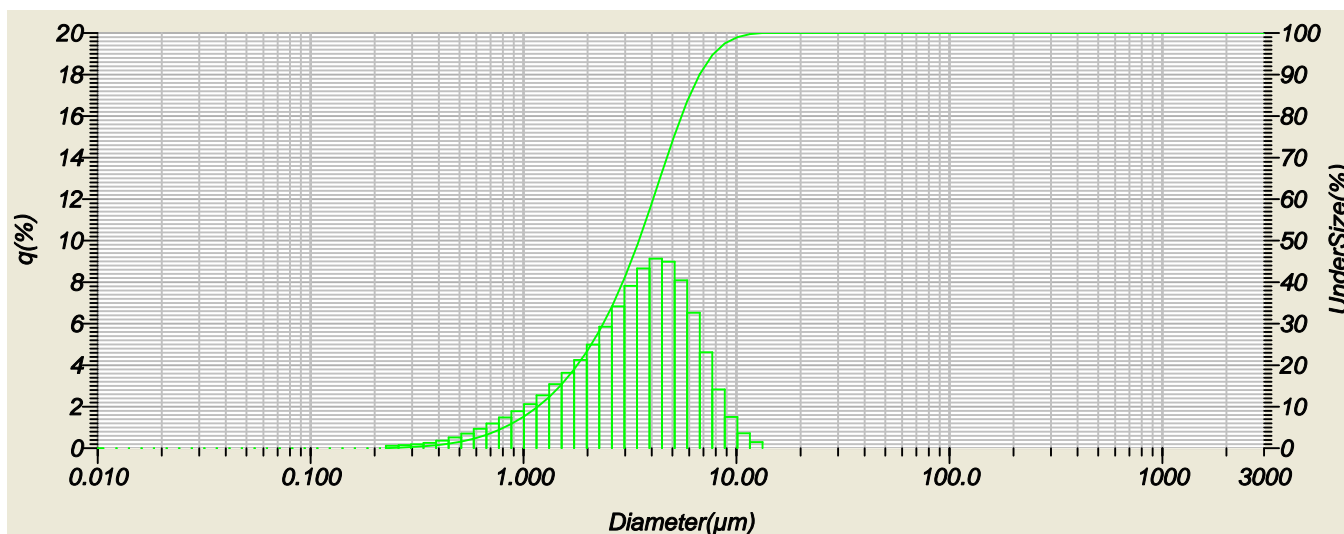
The following table shows the results of the LA-950V2.

We measured these samples three times.

Sample name	US time	median size[μm]		
		N=1	N=2	N=3
	5min.	3.48	3.55	3.69
	10min.	3.05	3.17	3.33

HORIBA Laser Scattering Particle Size Distribution Analyzer LA-950

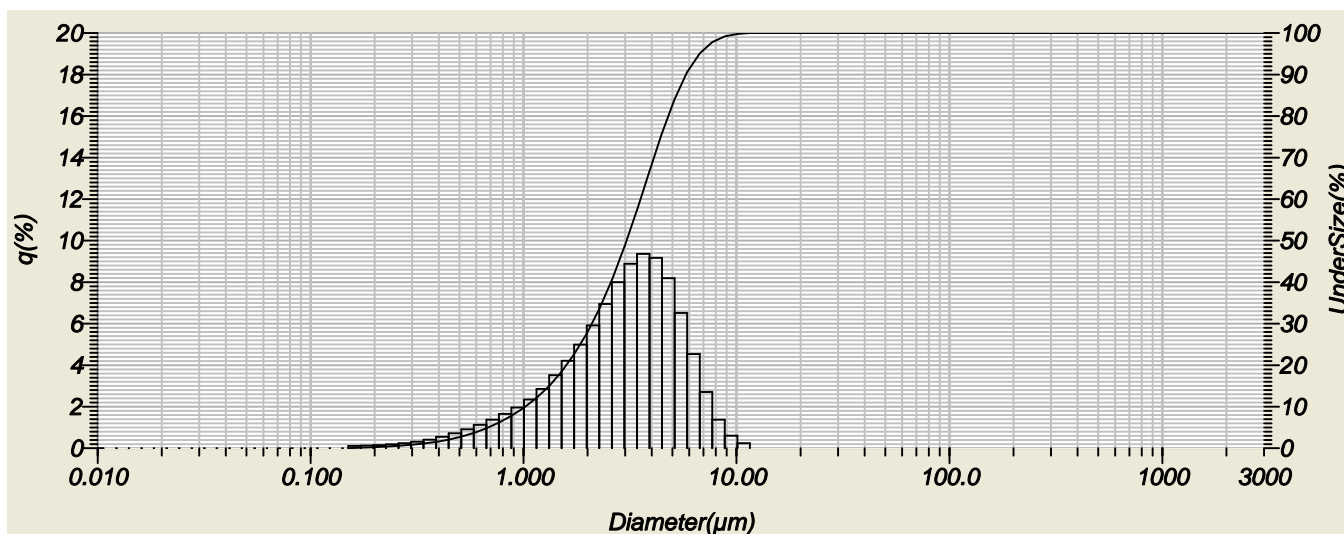
Sample Name	: graphite powder	Median Size	: 3.47952(μ m)
ID#	: 201005271453009	Mean Size	: 3.77245(μ m)
Data Name	: graphite_05_01	Std.Dev.	: 2.1867(μ m)
Transmittance(R)	: 80.0(%)	Geo.Mean Size	: 3.0896(μ m)
Transmittance(B)	: 76.8(%)	Geo.Std.Dev.	: 1.9912(μ m)
Circulation Speed	: 3	Mode Size	: 4.1888(μ m)
Agitation Speed	: OFF	Span	: 1.5935
Ultra Sonic	: 05:00 (7)	Diameter on Cumulative %	: (2)10.00 (%) - 1.1675(μ m)
Form of Distribution	: Manual		: (9)90.00 (%) - 6.7121(μ m)
Distribution Base	: Volume		
Refractive Index (R)	: C_1.333[Carbon 2(1.920 - 0.522i),Water(1.333)]		
Refractive Index (B)	: C_1.333[Carbon 2(1.920 - 0.522i),Water(1.333)]		
Material	:		
Source	:		
Lot Number	:		
Test or Assay. Number	:		



No.	Diameter(μ m)	q(%)	UnderSize(%)	No.	Diameter(μ m)	q(%)	UnderSize(%)	No.	Diameter(μ m)	q(%)	UnderSize(%)	No.	Diameter(μ m)	q(%)	UnderSize(%)
1	0.011	0.000	0.000	25	0.296	0.139	0.249	49	7.697	4.615	94.670	73	200.000	0.000	100.000
2	0.013	0.000	0.000	26	0.339	0.182	0.432	50	8.816	2.822	97.492	74	229.075	0.000	100.000
3	0.015	0.000	0.000	27	0.389	0.250	0.682	51	10.097	1.503	98.995	75	262.376	0.000	100.000
4	0.017	0.000	0.000	28	0.445	0.362	1.044	52	11.565	0.716	99.711	76	300.518	0.000	100.000
5	0.020	0.000	0.000	29	0.510	0.512	1.556	53	13.246	0.289	100.000	77	344.206	0.000	100.000
6	0.022	0.000	0.000	30	0.584	0.701	2.256	54	15.172	0.000	100.000	78	394.244	0.000	100.000
7	0.026	0.000	0.000	31	0.669	0.926	3.183	55	17.377	0.000	100.000	79	451.556	0.000	100.000
8	0.029	0.000	0.000	32	0.766	1.186	4.368	56	19.904	0.000	100.000	80	517.200	0.000	100.000
9	0.034	0.000	0.000	33	0.877	1.473	5.841	57	22.797	0.000	100.000	81	592.387	0.000	100.000
10	0.039	0.000	0.000	34	1.005	1.775	7.616	58	26.111	0.000	100.000	82	678.504	0.000	100.000
11	0.044	0.000	0.000	35	1.151	2.116	9.733	59	29.907	0.000	100.000	83	777.141	0.000	100.000
12	0.051	0.000	0.000	36	1.318	2.541	12.273	60	34.255	0.000	100.000	84	890.116	0.000	100.000
13	0.058	0.000	0.000	37	1.510	3.078	15.351	61	39.234	0.000	100.000	85	1019.515	0.000	100.000
14	0.067	0.000	0.000	38	1.729	3.630	18.981	62	44.938	0.000	100.000	86	1167.725	0.000	100.000
15	0.076	0.000	0.000	39	1.981	4.242	23.223	63	51.471	0.000	100.000	87	1337.481	0.000	100.000
16	0.087	0.000	0.000	40	2.269	4.981	28.204	64	58.953	0.000	100.000	88	1531.914	0.000	100.000
17	0.100	0.000	0.000	41	2.599	5.852	34.056	65	67.523	0.000	100.000	89	1754.613	0.000	100.000
18	0.115	0.000	0.000	42	2.976	6.825	40.881	66	77.339	0.000	100.000	90	2009.687	0.000	100.000
19	0.131	0.000	0.000	43	3.409	7.813	48.693	67	88.583	0.000	100.000	91	2301.841	0.000	100.000
20	0.150	0.000	0.000	44	3.905	8.655	57.349	68	101.460	0.000	100.000	92	2636.467	0.000	100.000
21	0.172	0.000	0.000	45	4.472	9.124	66.473	69	116.210	0.000	100.000	93	3000.000	0.000	100.000
22	0.197	0.000	0.000	46	5.122	8.980	75.453	70	133.103	0.000	100.000				
23	0.226	0.000	0.000	47	5.867	8.084	83.537	71	152.453	0.000	100.000				
24	0.259	0.110	0.110	48	6.720	6.518	90.055	72	174.616	0.000	100.000				

HORIBA Laser Scattering Particle Size Distribution Analyzer LA-950

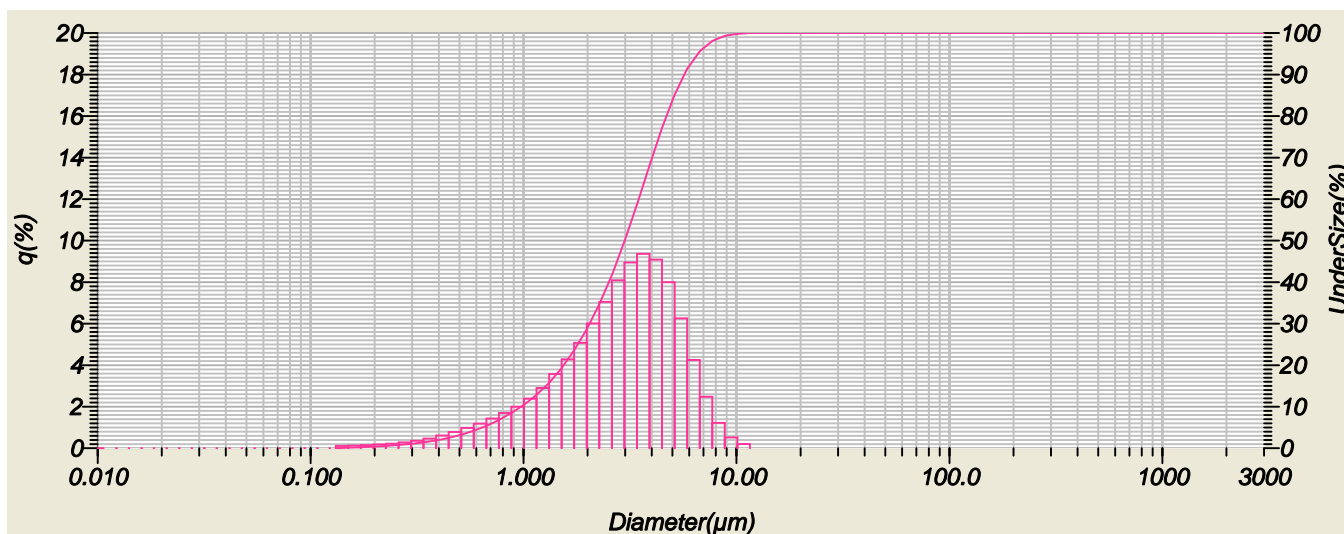
Sample Name	: graphite powder	Median Size	: 3.04666(μ m)
ID#	: 201005271502015	Mean Size	: 3.27911(μ m)
Data Name	: graphite_10_01	Std.Dev.	: 1.8736(μ m)
Transmittance(R)	: 79.4(%)	Geo.Mean Size	: 2.6849(μ m)
Transmittance(B)	: 76.2(%)	Geo.Std.Dev.	: 2.0101(μ m)
Circulation Speed	: 3	Mode Size	: 3.6560(μ m)
Agitation Speed	: OFF	Span	: 1.5684
Ultra Sonic	: 10:00 (7)	Diameter on Cumulative %	: (2)10.00 (%) - 1.0204(μ m)
Form of Distribution	: Manual		: (9)90.00 (%) - 5.7989(μ m)
Distribution Base	: Volume		
Refractive Index (R)	: C_1.333[Carbon 2(1.920 - 0.522i),Water(1.333)]		
Refractive Index (B)	: C_1.333[Carbon 2(1.920 - 0.522i),Water(1.333)]		
Material	:		
Source	:		
Lot Number	:		
Test or Assay. Number	:		



No.	Diameter(μ m)	q(%)	UnderSize(%)	No.	Diameter(μ m)	q(%)	UnderSize(%)	No.	Diameter(μ m)	q(%)	UnderSize(%)	No.	Diameter(μ m)	q(%)	UnderSize(%)
1	0.011	0.000	0.000	25	0.296	0.232	0.779	49	7.697	2.704	97.791	73	200.000	0.000	100.000
2	0.013	0.000	0.000	26	0.339	0.303	1.083	50	8.816	1.370	99.161	74	229.075	0.000	100.000
3	0.015	0.000	0.000	27	0.389	0.403	1.486	51	10.097	0.601	99.762	75	262.376	0.000	100.000
4	0.017	0.000	0.000	28	0.445	0.543	2.028	52	11.565	0.238	100.000	76	300.518	0.000	100.000
5	0.020	0.000	0.000	29	0.510	0.711	2.739	53	13.246	0.000	100.000	77	344.206	0.000	100.000
6	0.022	0.000	0.000	30	0.584	0.903	3.642	54	15.172	0.000	100.000	78	394.244	0.000	100.000
7	0.026	0.000	0.000	31	0.669	1.122	4.764	55	17.377	0.000	100.000	79	451.556	0.000	100.000
8	0.029	0.000	0.000	32	0.766	1.371	6.135	56	19.904	0.000	100.000	80	517.200	0.000	100.000
9	0.034	0.000	0.000	33	0.877	1.648	7.783	57	22.797	0.000	100.000	81	592.387	0.000	100.000
10	0.039	0.000	0.000	34	1.005	1.953	9.736	58	26.111	0.000	100.000	82	678.504	0.000	100.000
11	0.044	0.000	0.000	35	1.151	2.336	12.072	59	29.907	0.000	100.000	83	777.141	0.000	100.000
12	0.051	0.000	0.000	36	1.318	2.849	14.921	60	34.255	0.000	100.000	84	890.116	0.000	100.000
13	0.058	0.000	0.000	37	1.510	3.508	18.429	61	39.234	0.000	100.000	85	1019.515	0.000	100.000
14	0.067	0.000	0.000	38	1.729	4.207	22.636	62	44.938	0.000	100.000	86	1167.725	0.000	100.000
15	0.076	0.000	0.000	39	1.981	4.988	27.624	63	51.471	0.000	100.000	87	1337.481	0.000	100.000
16	0.087	0.000	0.000	40	2.269	5.911	33.535	64	58.953	0.000	100.000	88	1531.914	0.000	100.000
17	0.100	0.000	0.000	41	2.599	6.944	40.480	65	67.523	0.000	100.000	89	1754.613	0.000	100.000
18	0.115	0.000	0.000	42	2.976	7.992	48.471	66	77.339	0.000	100.000	90	2009.687	0.000	100.000
19	0.131	0.000	0.000	43	3.409	8.877	57.349	67	88.583	0.000	100.000	91	2301.841	0.000	100.000
20	0.150	0.000	0.000	44	3.905	9.353	66.702	68	101.460	0.000	100.000	92	2636.467	0.000	100.000
21	0.172	0.103	0.103	45	4.472	9.165	75.867	69	116.210	0.000	100.000	93	3000.000	0.000	100.000
22	0.197	0.120	0.223	46	5.122	8.181	84.048	70	133.103	0.000	100.000				
23	0.226	0.144	0.368	47	5.867	6.511	90.559	71	152.453	0.000	100.000				
24	0.259	0.180	0.548	48	6.720	4.528	95.087	72	174.616	0.000	100.000				

HORIBA Laser Scattering Particle Size Distribution Analyzer LA-950

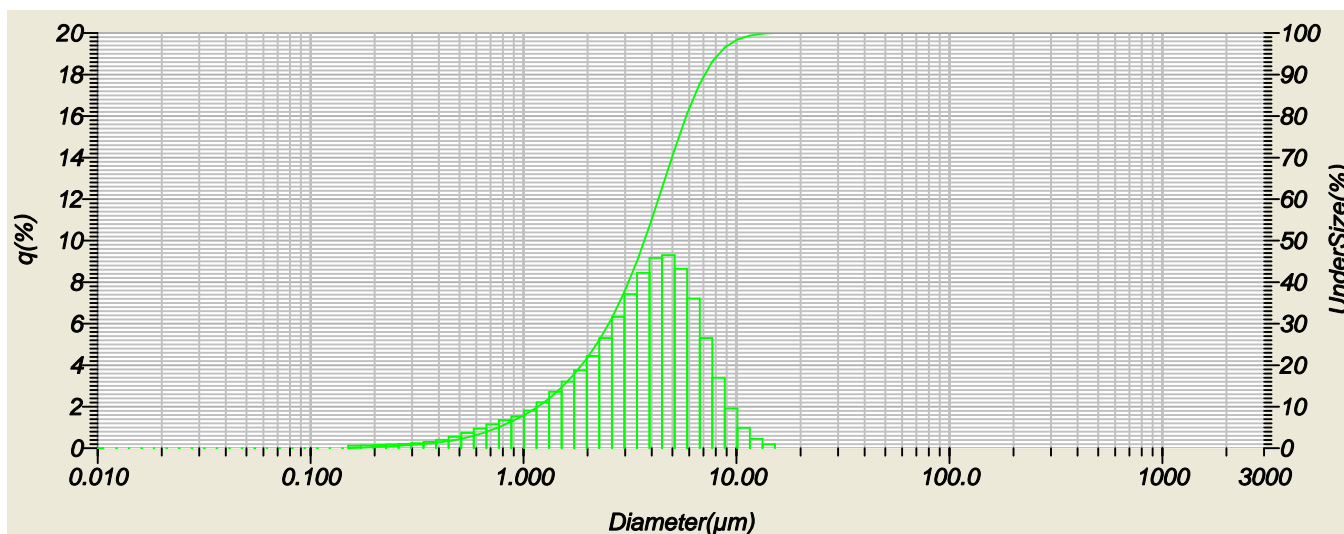
Sample Name	: graphite powder	Median Size	: 2.98762(μm)
ID#	: 201005271507018	Mean Size	: 3.20829(μm)
Data Name	: graphite_12_01	Std.Dev.	: 1.8447(μm)
Transmittance(R)	: 80.3(%)	Geo.Mean Size	: 2.6122(μm)
Transmittance(B)	: 77.2(%)	Geo.Std.Dev.	: 2.0394(μm)
Circulation Speed	: 3	Mode Size	: 3.6519(μm)
Agitation Speed	: OFF	Span	: 1.5805
Ultra Sonic	: 12:00 (7)	Diameter on Cumulative %	: (2)10.00 (%) - 0.9747(μm)
Form of Distribution	: Manual		: (9)90.00 (%) - 5.6965(μm)
Distribution Base	: Volume		
Refractive Index (R)	: C_1.333[Carbon 2(1.920 - 0.522i),Water(1.333)]		
Refractive Index (B)	: C_1.333[Carbon 2(1.920 - 0.522i),Water(1.333)]		
Material	:		
Source	:		
Lot Number	:		
Test or Assay. Number	:		



No.	Diameter(μm)	q(%)	UnderSize(%)	No.	Diameter(μm)	q(%)	UnderSize(%)	No.	Diameter(μm)	q(%)	UnderSize(%)	No.	Diameter(μm)	q(%)	UnderSize(%)
1	0.011	0.000	0.000	25	0.296	0.270	1.019	49	7.697	2.468	98.071	73	200.000	0.000	100.000
2	0.013	0.000	0.000	26	0.339	0.350	1.369	50	8.816	1.213	99.285	74	229.075	0.000	100.000
3	0.015	0.000	0.000	27	0.389	0.457	1.827	51	10.097	0.516	99.801	75	262.376	0.000	100.000
4	0.017	0.000	0.000	28	0.445	0.603	2.430	52	11.565	0.199	100.000	76	300.518	0.000	100.000
5	0.020	0.000	0.000	29	0.510	0.774	3.203	53	13.246	0.000	100.000	77	344.206	0.000	100.000
6	0.022	0.000	0.000	30	0.584	0.964	4.168	54	15.172	0.000	100.000	78	394.244	0.000	100.000
7	0.026	0.000	0.000	31	0.669	1.178	5.346	55	17.377	0.000	100.000	79	451.556	0.000	100.000
8	0.029	0.000	0.000	32	0.766	1.420	6.766	56	19.904	0.000	100.000	80	517.200	0.000	100.000
9	0.034	0.000	0.000	33	0.877	1.691	8.456	57	22.797	0.000	100.000	81	592.387	0.000	100.000
10	0.039	0.000	0.000	34	1.005	1.991	10.447	58	26.111	0.000	100.000	82	678.504	0.000	100.000
11	0.044	0.000	0.000	35	1.151	2.376	12.823	59	29.907	0.000	100.000	83	777.141	0.000	100.000
12	0.051	0.000	0.000	36	1.318	2.896	15.718	60	34.255	0.000	100.000	84	890.116	0.000	100.000
13	0.058	0.000	0.000	37	1.510	3.566	19.284	61	39.234	0.000	100.000	85	1019.515	0.000	100.000
14	0.067	0.000	0.000	38	1.729	4.275	23.559	62	44.938	0.000	100.000	86	1167.725	0.000	100.000
15	0.076	0.000	0.000	39	1.981	5.066	28.625	63	51.471	0.000	100.000	87	1337.481	0.000	100.000
16	0.087	0.000	0.000	40	2.269	6.000	34.625	64	58.953	0.000	100.000	88	1531.914	0.000	100.000
17	0.100	0.000	0.000	41	2.599	7.041	41.666	65	67.523	0.000	100.000	89	1754.613	0.000	100.000
18	0.115	0.000	0.000	42	2.976	8.084	49.750	66	77.339	0.000	100.000	90	2009.687	0.000	100.000
19	0.131	0.000	0.000	43	3.409	8.940	58.690	67	88.583	0.000	100.000	91	2301.841	0.000	100.000
20	0.150	0.105	0.105	44	3.905	9.355	68.045	68	101.460	0.000	100.000	92	2636.467	0.000	100.000
21	0.172	0.121	0.226	45	4.472	9.076	77.121	69	116.210	0.000	100.000	93	3000.000	0.000	100.000
22	0.197	0.141	0.367	46	5.122	7.990	85.110	70	133.103	0.000	100.000				
23	0.226	0.170	0.537	47	5.867	6.246	91.356	71	152.453	0.000	100.000				
24	0.259	0.211	0.748	48	6.720	4.247	95.603	72	174.616	0.000	100.000				

HORIBA Laser Scattering Particle Size Distribution Analyzer LA-950

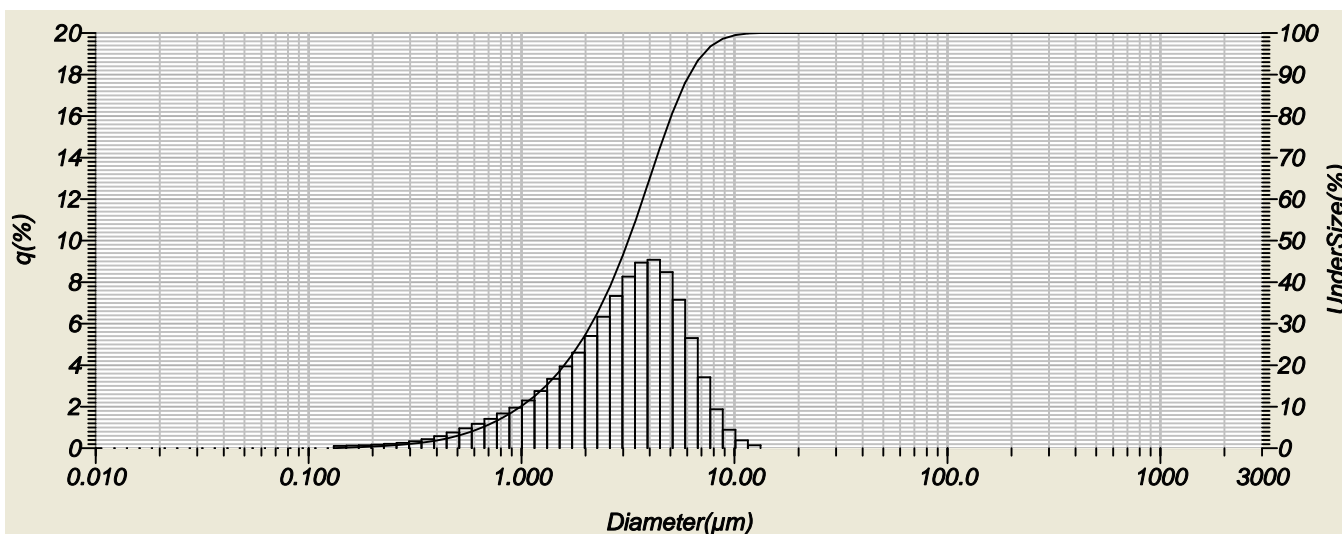
Sample Name	: graphite powder	Median Size	: 3.69099(μm)
ID#	: 201005271553031	Mean Size	: 3.97962(μm)
Data Name	: graphite_05_21	Std.Dev.	: 2.3405(μm)
Transmittance(R)	: 83.9(%)	Geo.Mean Size	: 3.2119(μm)
Transmittance(B)	: 81.3(%)	Geo.Std.Dev.	: 2.0739(μm)
Circulation Speed	: 3	Mode Size	: 4.7679(μm)
Agitation Speed	: OFF	Span	: 1.6085
Ultra Sonic	: 05:00 (7)	Diameter on Cumulative %	: (2)10.00 (%) - 1.1709(μm)
Form of Distribution	: Manual		: (9)90.00 (%) - 7.1077(μm)
Distribution Base	: Volume		
Refractive Index (R)	: C_1.333[Carbon 2(1.920 - 0.522i),Water(1.333)]		
Refractive Index (B)	: C_1.333[Carbon 2(1.920 - 0.522i),Water(1.333)]		
Material	:		
Source	:		
Lot Number	:		
Test or Assay. Number	:		



No.	Diameter(μm)	q(%)	UnderSize(%)	No.	Diameter(μm)	q(%)	UnderSize(%)	No.	Diameter(μm)	q(%)	UnderSize(%)	No.	Diameter(μm)	q(%)	UnderSize(%)
1	0.011	0.000	0.000	25	0.296	0.200	0.753	49	7.697	5.298	93.108	73	200.000	0.000	100.000
2	0.013	0.000	0.000	26	0.339	0.239	0.992	50	8.816	3.386	96.494	74	229.075	0.000	100.000
3	0.015	0.000	0.000	27	0.389	0.298	1.289	51	10.097	1.910	98.403	75	262.376	0.000	100.000
4	0.017	0.000	0.000	28	0.445	0.398	1.687	52	11.565	0.977	99.380	76	300.518	0.000	100.000
5	0.020	0.000	0.000	29	0.510	0.541	2.228	53	13.246	0.441	99.822	77	344.206	0.000	100.000
6	0.022	0.000	0.000	30	0.584	0.725	2.953	54	15.172	0.178	100.000	78	394.244	0.000	100.000
7	0.026	0.000	0.000	31	0.669	0.935	3.888	55	17.377	0.000	100.000	79	451.556	0.000	100.000
8	0.029	0.000	0.000	32	0.766	1.149	5.037	56	19.904	0.000	100.000	80	517.200	0.000	100.000
9	0.034	0.000	0.000	33	0.877	1.347	6.383	57	22.797	0.000	100.000	81	592.387	0.000	100.000
10	0.039	0.000	0.000	34	1.005	1.533	7.916	58	26.111	0.000	100.000	82	678.504	0.000	100.000
11	0.044	0.000	0.000	35	1.151	1.805	9.721	59	29.907	0.000	100.000	83	777.141	0.000	100.000
12	0.051	0.000	0.000	36	1.318	2.200	11.921	60	34.255	0.000	100.000	84	890.116	0.000	100.000
13	0.058	0.000	0.000	37	1.510	2.707	14.628	61	39.234	0.000	100.000	85	1019.515	0.000	100.000
14	0.067	0.000	0.000	38	1.729	3.207	17.835	62	44.938	0.000	100.000	86	1167.725	0.000	100.000
15	0.076	0.000	0.000	39	1.981	3.748	21.583	63	51.471	0.000	100.000	87	1337.481	0.000	100.000
16	0.087	0.000	0.000	40	2.269	4.440	26.023	64	58.953	0.000	100.000	88	1531.914	0.000	100.000
17	0.100	0.000	0.000	41	2.599	5.301	31.324	65	67.523	0.000	100.000	89	1754.613	0.000	100.000
18	0.115	0.000	0.000	42	2.976	6.316	37.641	66	77.339	0.000	100.000	90	2009.687	0.000	100.000
19	0.131	0.000	0.000	43	3.409	7.415	45.055	67	88.583	0.000	100.000	91	2301.841	0.000	100.000
20	0.150	0.000	0.000	44	3.905	8.443	53.499	68	101.460	0.000	100.000	92	2636.467	0.000	100.000
21	0.172	0.109	0.109	45	4.472	9.164	62.663	69	116.210	0.000	100.000	93	3000.000	0.000	100.000
22	0.197	0.127	0.235	46	5.122	9.298	71.961	70	133.103	0.000	100.000				
23	0.226	0.147	0.382	47	5.867	8.641	80.602	71	152.453	0.000	100.000				
24	0.259	0.171	0.553	48	6.720	7.208	87.810	72	174.616	0.000	100.000				

HORIBA Laser Scattering Particle Size Distribution Analyzer LA-950

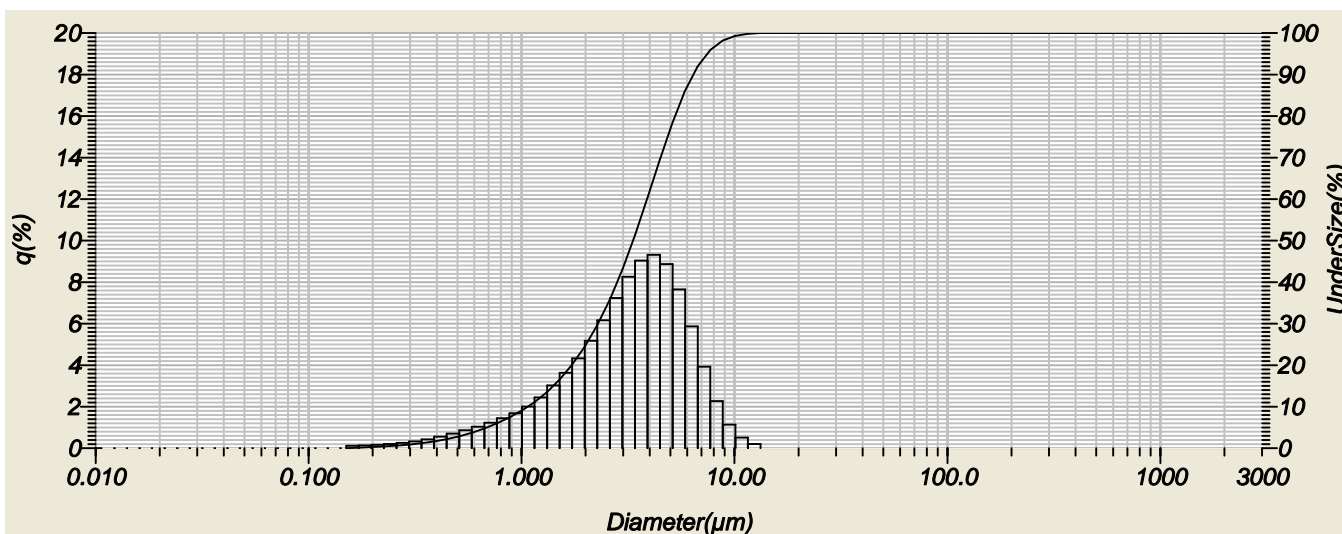
Sample Name	: graphite powder	Median Size	: 3.17048(μ m)
ID#	: 201005271529026	Mean Size	: 3.42837(μ m)
Data Name	: graphite_10_11	Std.Dev.	: 2.0284(μ m)
Transmittance(R)	: 81.5(%)	Geo.Mean Size	: 2.7584(μ m)
Transmittance(B)	: 78.4(%)	Geo.Std.Dev.	: 2.0825(μ m)
Circulation Speed	: 3	Mode Size	: 4.1646(μ m)
Agitation Speed	: OFF	Span	: 1.6334
Ultra Sonic	: 10:00 (7)	Diameter on Cumulative %	: (2)10.00 (%) - 0.9918(μ m)
Form of Distribution	: Manual		: (9)90.00 (%) - 6.1704(μ m)
Distribution Base	: Volume		
Refractive Index (R)	: C_1.333[Carbon 2(1.920 - 0.522i),Water(1.333)]		
Refractive Index (B)	: C_1.333[Carbon 2(1.920 - 0.522i),Water(1.333)]		
Material	:		
Source	:		
Lot Number	:		
Test or Assay. Number	:		



No.	Diameter(μ m)	q(%)	UnderSize(%)	No.	Diameter(μ m)	q(%)	UnderSize(%)	No.	Diameter(μ m)	q(%)	UnderSize(%)	No.	Diameter(μ m)	q(%)	UnderSize(%)
1	0.011	0.000	0.000	25	0.296	0.253	0.982	49	7.697	3.410	96.743	73	200.000	0.000	100.000
2	0.013	0.000	0.000	26	0.339	0.325	1.307	50	8.816	1.869	98.612	74	229.075	0.000	100.000
3	0.015	0.000	0.000	27	0.389	0.426	1.732	51	10.097	0.884	99.496	75	262.376	0.000	100.000
4	0.017	0.000	0.000	28	0.445	0.572	2.305	52	11.565	0.372	99.868	76	300.518	0.000	100.000
5	0.020	0.000	0.000	29	0.510	0.749	3.054	53	13.246	0.132	100.000	77	344.206	0.000	100.000
6	0.022	0.000	0.000	30	0.584	0.949	4.003	54	15.172	0.000	100.000	78	394.244	0.000	100.000
7	0.026	0.000	0.000	31	0.669	1.167	5.170	55	17.377	0.000	100.000	79	451.556	0.000	100.000
8	0.029	0.000	0.000	32	0.766	1.406	6.577	56	19.904	0.000	100.000	80	517.200	0.000	100.000
9	0.034	0.000	0.000	33	0.877	1.666	8.242	57	22.797	0.000	100.000	81	592.387	0.000	100.000
10	0.039	0.000	0.000	34	1.005	1.945	10.187	58	26.111	0.000	100.000	82	678.504	0.000	100.000
11	0.044	0.000	0.000	35	1.151	2.293	12.480	59	29.907	0.000	100.000	83	777.141	0.000	100.000
12	0.051	0.000	0.000	36	1.318	2.752	15.231	60	34.255	0.000	100.000	84	890.116	0.000	100.000
13	0.058	0.000	0.000	37	1.510	3.338	18.570	61	39.234	0.000	100.000	85	1019.515	0.000	100.000
14	0.067	0.000	0.000	38	1.729	3.935	22.504	62	44.938	0.000	100.000	86	1167.725	0.000	100.000
15	0.076	0.000	0.000	39	1.981	4.596	27.100	63	51.471	0.000	100.000	87	1337.481	0.000	100.000
16	0.087	0.000	0.000	40	2.269	5.397	32.498	64	58.953	0.000	100.000	88	1531.914	0.000	100.000
17	0.100	0.000	0.000	41	2.599	6.327	38.825	65	67.523	0.000	100.000	89	1754.613	0.000	100.000
18	0.115	0.000	0.000	42	2.976	7.327	46.152	66	77.339	0.000	100.000	90	2009.687	0.000	100.000
19	0.131	0.000	0.000	43	3.409	8.264	54.415	67	88.583	0.000	100.000	91	2301.841	0.000	100.000
20	0.150	0.105	0.105	44	3.905	8.929	63.345	68	101.460	0.000	100.000	92	2636.467	0.000	100.000
21	0.172	0.119	0.224	45	4.472	9.068	72.412	69	116.210	0.000	100.000	93	3000.000	0.000	100.000
22	0.197	0.138	0.363	46	5.122	8.477	80.890	70	133.103	0.000	100.000				
23	0.226	0.165	0.527	47	5.867	7.140	88.029	71	152.453	0.000	100.000				
24	0.259	0.201	0.728	48	6.720	5.304	93.333	72	174.616	0.000	100.000				

HORIBA Laser Scattering Particle Size Distribution Analyzer LA-950

Sample Name	: graphite powder	Median Size	: 3.33824(μm)
ID#	: 201005271626040	Mean Size	: 3.59671(μm)
Data Name	: graphite_10_21	Std.Dev.	: 2.0934(μm)
Transmittance(R)	: 79.8(%)	Geo.Mean Size	: 2.9131(μm)
Transmittance(B)	: 76.5(%)	Geo.Std.Dev.	: 2.0606(μm)
Circulation Speed	: 3	Mode Size	: 4.1734(μm)
Agitation Speed	: OFF	Span	: 1.6017
Ultra Sonic	: 10:00 (7)	Diameter on Cumulative %	: (2)10.00 (%) - 1.0709(μm)
Form of Distribution	: Manual		: (9)90.00 (%) - 6.4179(μm)
Distribution Base	: Volume		
Refractive Index (R)	: C_1.333[Carbon 2(1.920 - 0.522i),Water(1.333)]		
Refractive Index (B)	: C_1.333[Carbon 2(1.920 - 0.522i),Water(1.333)]		
Material	:		
Source	:		
Lot Number	:		
Test or Assay. Number	:		



No.	Diameter(μm)	q(%)	UnderSize(%)	No.	Diameter(μm)	q(%)	UnderSize(%)	No.	Diameter(μm)	q(%)	UnderSize(%)	No.	Diameter(μm)	q(%)	UnderSize(%)
1	0.011	0.000	0.000	25	0.296	0.249	0.840	49	7.697	3.924	95.908	73	200.000	0.000	100.000
2	0.013	0.000	0.000	26	0.339	0.323	1.163	50	8.816	2.262	98.170	74	229.075	0.000	100.000
3	0.015	0.000	0.000	27	0.389	0.420	1.584	51	10.097	1.131	99.301	75	262.376	0.000	100.000
4	0.017	0.000	0.000	28	0.445	0.550	2.134	52	11.565	0.505	99.807	76	300.518	0.000	100.000
5	0.020	0.000	0.000	29	0.510	0.697	2.832	53	13.246	0.193	100.000	77	344.206	0.000	100.000
6	0.022	0.000	0.000	30	0.584	0.856	3.688	54	15.172	0.000	100.000	78	394.244	0.000	100.000
7	0.026	0.000	0.000	31	0.669	1.030	4.718	55	17.377	0.000	100.000	79	451.556	0.000	100.000
8	0.029	0.000	0.000	32	0.766	1.224	5.942	56	19.904	0.000	100.000	80	517.200	0.000	100.000
9	0.034	0.000	0.000	33	0.877	1.439	7.381	57	22.797	0.000	100.000	81	592.387	0.000	100.000
10	0.039	0.000	0.000	34	1.005	1.680	9.061	58	26.111	0.000	100.000	82	678.504	0.000	100.000
11	0.044	0.000	0.000	35	1.151	2.001	11.062	59	29.907	0.000	100.000	83	777.141	0.000	100.000
12	0.051	0.000	0.000	36	1.318	2.442	13.504	60	34.255	0.000	100.000	84	890.116	0.000	100.000
13	0.058	0.000	0.000	37	1.510	3.017	16.521	61	39.234	0.000	100.000	85	1019.515	0.000	100.000
14	0.067	0.000	0.000	38	1.729	3.627	20.147	62	44.938	0.000	100.000	86	1167.725	0.000	100.000
15	0.076	0.000	0.000	39	1.981	4.320	24.468	63	51.471	0.000	100.000	87	1337.481	0.000	100.000
16	0.087	0.000	0.000	40	2.269	5.167	29.634	64	58.953	0.000	100.000	88	1531.914	0.000	100.000
17	0.100	0.000	0.000	41	2.599	6.155	35.789	65	67.523	0.000	100.000	89	1754.613	0.000	100.000
18	0.115	0.000	0.000	42	2.976	7.228	43.018	66	77.339	0.000	100.000	90	2009.687	0.000	100.000
19	0.131	0.000	0.000	43	3.409	8.257	51.275	67	88.583	0.000	100.000	91	2301.841	0.000	100.000
20	0.150	0.000	0.000	44	3.905	9.036	60.311	68	101.460	0.000	100.000	92	2636.467	0.000	100.000
21	0.172	0.111	0.111	45	4.472	9.309	69.620	69	116.210	0.000	100.000	93	3000.000	0.000	100.000
22	0.197	0.129	0.240	46	5.122	8.861	78.481	70	133.103	0.000	100.000				
23	0.226	0.156	0.396	47	5.867	7.643	86.124	71	152.453	0.000	100.000				
24	0.259	0.195	0.591	48	6.720	5.860	91.984	72	174.616	0.000	100.000				