

Particle Size Analysis

Measurement Details

Customer Name Haereticus Environmental Laboratory
Sample Name Average of 'Sunscreen Samples, HEL A'

Measurement Details

Measurement Date Time 10/30/2019 6:29:47 AM
Submission Number R-20191023-042
Sample Number S-191023-060

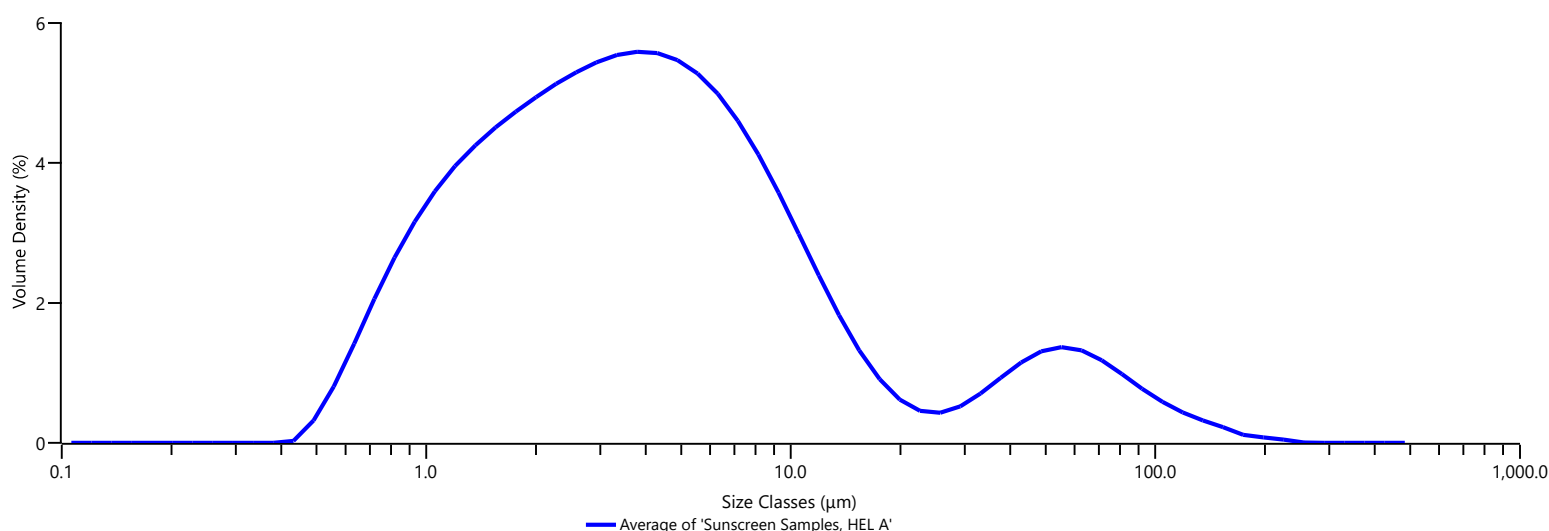
Analysis

Particle Name Titanium Dioxide TiO₂
Particle Refractive Index 2.493
Dispersant Name Water
Dispersant Refractive Index 1.330
Scattering Model Mie
Laser Obscuration 2.49 %

Result

D [4,3] 10.9 μm
Dv (10) 1.05 μm
Dv (50) 3.73 μm
Dv (90) 27.7 μm
Result Units Volume

Frequency (compatible)



Result

Size (μm)	% Volume In	Size (μm)	% Volume In	Size (μm)	% Volume In	Size (μm)	% Volume In	Size (μm)	% Volume In	Size (μm)	% Volume In	Size (μm)	% Volume In
0.0100	0.00	0.0679	0.00	0.460	0.26	3.12	4.62	21.2	0.37	144	0.19	976	0.00
0.0114	0.00	0.0771	0.00	0.523	0.66	3.55	4.66	24.1	0.35	163	0.09	1110	0.00
0.0129	0.00	0.0876	0.00	0.594	1.18	4.03	4.65	27.4	0.43	186	0.06	1260	0.00
0.0147	0.00	0.0995	0.00	0.675	1.72	4.58	4.57	31.1	0.58	211	0.04	1430	0.00
0.0167	0.00	0.113	0.00	0.767	2.21	5.21	4.41	35.3	0.78	240	0.00	1630	0.00
0.0189	0.00	0.128	0.00	0.872	2.64	5.92	4.16	40.1	0.96	272	0.00	1850	0.00
0.0215	0.00	0.146	0.00	0.991	3.00	6.72	3.84	45.6	1.10	310	0.00	2100	0.00
0.0244	0.00	0.166	0.00	1.13	3.30	7.64	3.44	51.8	1.15	352	0.00	2390	0.00
0.0278	0.00	0.188	0.00	1.28	3.55	8.68	2.98	58.9	1.11	400	0.00	2710	0.00
0.0315	0.00	0.214	0.00	1.45	3.76	9.86	2.49	66.9	0.99	454	0.00	3080	0.00
0.0358	0.00	0.243	0.00	1.65	3.95	11.2	1.99	76.0	0.82	516	0.00	3500	0.00
0.0407	0.00	0.276	0.00	1.88	4.12	12.7	1.52	86.4	0.64	586	0.00		
0.0463	0.00	0.314	0.00	2.13	4.28	14.5	1.09	98.1	0.48	666	0.00		
0.0526	0.00	0.357	0.00	2.42	4.42	16.4	0.75	111	0.36	756	0.00		
0.0597	0.00	0.405	0.00	2.75	4.54	18.7	0.51	127	0.27	859	0.00		