

Part #	Diameter (nm)	Peak SPR Wavelength (nm)	NPS/ml	Molarity (pM)	Moles	Molar Ext. (M-1cm-1)	Absorption Molar Ext. (M-1cm-1)	Scattering Molar Ext. (M-1cm-1)	Size Dispersity %PDI	Size Accuracy (+/- nm)
A611-1.8	1.8	n/a	4.25E+16	7.10E+07	7.09E-08	7.05E+05	7.05E+05	0.00E+00	<35%	0.1
A611-2.2	2.2	n/a	2.33E+16	3.90E+07	3.88E-08	1.29E+06	1.29E+06	0.00E+00	<25%	0.1
A611-3	3	n/a	9.19E+15	1.50E+07	1.53E-08	3.26E+06	3.26E+06	0.00E+00	<20%	0.1
A611-4	4	n/a	3.88E+15	6.50E+06	6.46E-09	7.74E+06	7.74E+06	0.00E+00	<20%	1
A611-5	5	512	1.99E+15	3.30E+06	3.31E-09	1.51E+07	1.51E+07	0.00E+00	<20%	2
A611-10	10	516	2.48E+14	4.10E+05	4.14E-10	1.21E+08	1.21E+08	0.00E+00	<15%	2
A611-15	15	518	7.35E+13	1.20E+05	1.23E-10	4.08E+08	4.08E+08	0.00E+00	<15%	2
A611-20	20	520	3.10E+13	5.20E+04	5.17E-11	9.67E+08	9.67E+08	0.00E+00	<10%	2
A611-25	25	521	1.59E+13	2.60E+04	2.65E-11	1.89E+09	1.89E+09	0.00E+00	<10%	2
A611-30	30	523	9.19E+12	1.50E+04	1.53E-11	3.26E+09	3.26E+09	0.00E+00	<6%	2
A611-35	35	526	5.79E+12	9.60E+03	9.65E-12	5.18E+09	5.18E+09	0.00E+00	<6%	2
A611-40	40	527	3.88E+12	6.50E+03	6.46E-12	7.74E+09	7.72E+09	2.24E+07	<4%	2
A611-45	45	529	2.72E+12	4.50E+03	4.54E-12	1.10E+10	1.08E+10	2.03E+08	<4%	2
A611-50	50	531	1.99E+12	3.30E+03	3.31E-12	1.51E+10	1.45E+10	5.88E+08	<4%	2
A611-55	55	533	1.49E+12	2.50E+03	2.49E-12	2.01E+10	1.88E+10	1.30E+09	<4%	2
A611-60	60	536	1.15E+12	1.90E+03	1.91E-12	2.61E+10	2.36E+10	2.48E+09	<4%	2
A611-65	65	539	9.04E+11	1.50E+03	1.51E-12	3.32E+10	2.89E+10	4.33E+09	<4%	2
A611-70	70	542	7.23E+11	1.20E+03	1.21E-12	4.15E+10	3.44E+10	7.09E+09	<4%	2
A611-75	75	545	5.88E+11	9.80E+02	9.80E-13	5.10E+10	4.00E+10	1.10E+10	<4%	2
A611-80	80	549	4.85E+11	8.10E+02	8.08E-13	6.19E+10	4.54E+10	1.65E+10	<4%	2
A611-85	85	553	4.04E+11	6.70E+02	6.73E-13	7.42E+10	5.03E+10	2.39E+10	<4%	2
A611-90	90	558	3.40E+11	5.70E+02	5.67E-13	8.81E+10	5.44E+10	3.37E+10	<4%	2
A611-95	95	563	2.89E+11	4.80E+02	4.82E-13	1.04E+11	5.72E+10	4.65E+10	<4%	2
A611-100	100	569	2.48E+11	4.10E+02	4.14E-13	1.21E+11	5.82E+10	6.27E+10	<4%	2
A611-150	150	612	7.35E+10	1.20E+02	1.23E-13	4.08E+11	0.00E+00	4.08E+11	<4%	10
A611-200	200	n/a	3.10E+10	5.20E+01	5.17E-14	9.67E+11	0.00E+00	9.67E+11	<4%	10
A611-500	500	n/a	1.99E+09	3.30E+00	3.31E-15	1.51E+13	0.00E+00	1.51E+13	<4%	50
A611-1000	1000	n/a	2.48E+08	4.10E-01	4.14E-16	1.21E+14	0.00E+00	1.21E+14	<4%	100
A611-1500	1500	n/a	7.35E+07	1.20E-01	1.23E-16	4.08E+14	0.00E+00	4.08E+14	<4%	100

Optical Density >= 50, 5 for sizes >=500nm
Wt conc = 2.5mg/mL, 1mL volume typical
Wt % = 0.25%
ppm = 2500
%PDI = Std Dev/Size
See Tech Note TN801 for definition of terms and method of analysis
All specs typical. May vary batch to batch. Exact values are measured for each batch
Shape monodispersity (% spheres) > 99.9%
Solution default is 18MEG DI water
Residual Chemicals < 0.1%