

Color Chart for Thermally Grown SiO₂

Color Chart Table for thermally grown silicon dioxide films observed perpendicularly under daylight fluorescent lighting. Copyright 1964 by International Business Machines Corporation; reprinted from Volume V INTRODUCTION TO MICROELECTRONIC FABRICATION

Film Thickness (μm)	Color and Comments
0.05	Tan
0.07	Brown
0.10	Dark violet to red violet
0.12	Royal Blue
0.15	Light blue to metallic blue
0.17	Metallic to very light yellow green
0.20	Light gold to yellow; slightly metallic
0.22	Gold with slight yellow orange
0.25	Orange to melon
0.27	Red violet
0.30	Blue to violet blue
0.31	Blue
0.32	Blue to blue green
0.34	Light green
0.35	Green to yellow green
0.36	Yellow green
0.37	Green yellow
0.39	Yellow
0.41	Light orange
0.42	Carnation pink
0.44	Violet red
0.46	Red violet
0.47	Violet
0.48	Blue violet
0.49	Blue
0.50	Blue green
0.52	Green (broad)
0.54	Yellow green
0.56	Green yellow
0.57	Yellow to "yellowish" (not yellow but is in the position where yellow is to be expected; at times appears to be light creamy gray or metallic)
0.58	Light orange or yellow to pink borderline
0.60	Carnation pink

color chart

0.63	Violet red
0.68	Bluish" (not blue but borderline between violet and blue green; appears more like a mixture between violet red and blue green and looks grayish)
0.72	Blue green to green (quite broad)
0.77	"Yellowish"
0.80	Orange (rather broad for orange)
0.82	Salmon
0.85	Dull, light red violet
0.86	Violet
0.87	Blue violet
0.89	Blue
0.92	Blue green
0.95	Dull yellow green
0.97	Yellow to "yellowish"
0.99	Orange
1.00	Carnation pink
1.02	Violet red
1.05	Red violet
1.06	Violet
1.07	Blue violet
1.10	Green
1.11	Yellow green
1.12	Green
1.18	Violet
1.19	Red Violet
1.21	Violet red
1.24	Carnation pink to salmon
1.25	Orange
1.28	Yellowish"
1.32	Sky blue to green blue
1.40	Orange
1.45	Violet
1.46	Blue violet
1.50	Blue
1.54	Dull yellow green