


[Home](#)
[Products](#)
[On-line quote](#)
[Inventory](#)
[Technology](#)
[About us](#)
[Contact us](#)

[2 inch wafers](#)
[3 inch wafers](#)
[100mm wafers](#)
[125mm wafers](#)
[150mm wafers](#)

## Silicon Materials Site/2 inch wafers

### Material Properties

Parameter	Characteristic	ASTM Control Method
Type/Dopant	P, Boron N, Phosphorous N, Antimony N, Arsenic	F42
Orientations	<100>, <111> slice off orientations per customer's specifications	F26
Oxygen Content	Intrinsic Custom tolerances per customer's specification	F1188
Carbon Content	0.5 - 1.0 ppmA Custom tolerances per customer's specification	F1391
Resistivity ranges - P, Boron - N, Phosphorous - N, Antimony - N, Arsenic	0.001 - 50 ohm cm 0.1 - 40 ohm cm 0.005 - 0.025 ohm cm < 0.005 ohm cm	F84

### Mechanical Properties

Parameter	Prime	Monitor/ Test A	Test	ASTM Method
Diameter - Nominal - Tolerance	2" .0015"	2" .0015"	2" .002"	F613
Thickness (.m) - Nominal - Tolerance	279 < 25	279 < 25	279 < 15	F533 F657
Bow (.m) Wrap (.m)	< 38 < 38	< 38 < 38	< 38 < 38	F657 F657
Edge Rounding	Compliant with SEMI M1.1 Standard			F928
Primary/Secondary Flats	Compliant with SEMI M1.1 Standard			F671

### Surface Quality

Parameter	Prime	Monitor/ Test A	Test	ASTM Method
<b>Front Side Criteria</b>				
Contamination, Particles @ >0.3 .m	<= 20	<= 20	<= 20	F523
Haze	None	None	None	F523
Pits	None	None	None	F523
Orange peel	None	None	None	F523

Saw Marks, striations	None	None	None	F523
<b>Back Side Criteria</b>				
Cracks, crowsfeet, saw marks, stains	None	None	None	F523
Surface condition	Caustic or acid etched			F523

