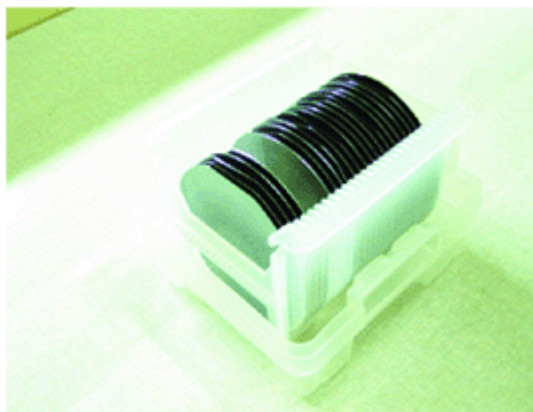
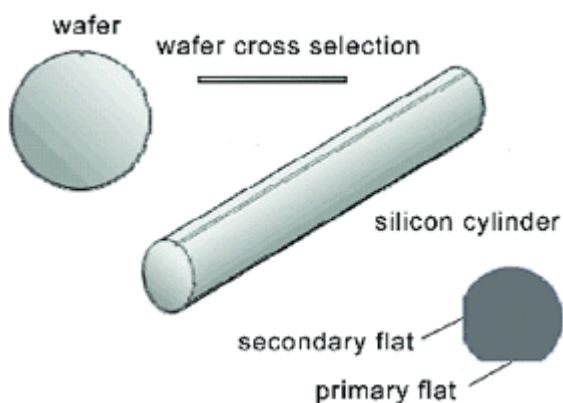


General Process



Material Properties

ITEMS	Characteristic	ASTM Test Method
Type/Dopant	P, Boron N, Phosphorous N, Antimony	F42
Orientations	<100>, <111>	F26
Resistivity ranges		F84
- P, Boron	0.001 - 50 ohm cm	
- N, Phosphorous	0.1 - 40 ohm cm	
- N, Antimony	0.005 - 0.025 ohm cm	
- N, Arsenic	< 0.005 ohm cm	
Oxygen Content	10-18ppma SEMI-STD or Custom	
Carbon Content	0.5-1.0 ppma SEMI-STD or Custom	F1391

Mechanical and Surface Properties

Parameter	Prime	Monitor/ Test A	Test B	ASTM Method
Diameter	150+/-0.5mm	150+/-0.5mm	150+/-0.5mm	F613
Thickness (衞)	500+/-13um	500+/-13um	500+/-13um	F533
TTV (衞)	< 6um	< 8um	< 15um	F657
Bow (衞)	< 30um	< 40um	< 60um	F657
Wrap (衞)	< 30um	< 40um	< 60um	F657
Contamination, Particles @ >0.3 衞	<= 10	<= 30	<= 30	F523
Primary/Secondary Flat	SEMI-STD or Custom			F671

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