STRATAGLASS

PECVD STANDARD OXIDE

Product Identification

Film Name:	PECVD Standard Oxide
Process ID:	D01POX
Scientific:	Silicon Dioxide - SiO_2
Classification:	Standard

Features

- Low Cost
- Variable Processing Parameters
- Large Batch Capacity
- Low Temperature - Widely Variable
- Custom Fixturing Available

Standards & Guarantees

Inspection: Standard I/O - First & Last
Guaranteed: Thickness (On Si Monitors)
Guaranteed: Refractive Index (On Si Monitors)

Items may vary when ordering outside the standard

Applications

- Passivation
- Thick Structures
- Insulation Layer
- Inter-layer Dielectric
- Encapsulation
- Patterning
- Masking
- Adhesion Layer
- Barrier Layer

Film Specifications

Film Thickness	Standard	1000A to 10,000A ± 10%
	Adjustable Range	500A to 50,000A ± 10%
Refractive Index	Standard	1.55 ± .05
	Adjustable Range	Fixed
Film Uniformity	Edge to Edge	10%
	Across Load	10%
Deposition Temp	Standard	380C
	Adjustable Range	100C to 600C
Film Stress	Standard	- 200MPa ± 50MPa
	Adjustable Range	Fixed

Film Properties

Electrical	Insulating Quality	Very Good
	Dielectric Constant	N/A
Mechanical	Hydrogen Inclusion	Moderate
	Scratch Protect	Good
	Masking Ability	Good
	Diffusion Barrier	Moderate
	Thermal Stability	Good
Etch Rate	BOE (50%)	Fast
	KOH	N/A
	Plasma	Moderate
Hydrology	Hydrophobic	Moderate

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