STRATAGLASS

PECVD 90X OXYNITRIDE

Product Identification

Film Name:	PECVD 90X Oxynitride
Process ID:	D01P9X
Scientific:	Silicon Oxynitride - SiON
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
Thickness - Guarantee up to 3um, Reference up to 5um
Index - Guarantee up to 3um, Reference up to 5um

Items may vary when ordering outside the standard

Other Information

- 90X Oxynitride Film Stress: This film has a nominal film stress of 0 MPa.

Applications

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

Film Specifications

Film Thickness	Standard	1000A to 10,000A ± 10%
	Adjustable Range	500A to 50,000A ± 10%
Refractive Index	Standard	1.58 ± .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	0MPa ± 50MPa
	Adjustable Range	Fixed

Film Properties

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

STRATAGLASS
958 San Leandro Avenue Suite 100
Mountain View, CA 94043

Phone 650-988-1700
Fax 650-988-1739
Email info@strataglass.us

WWW.STRATAGLASS.US