

**Product Identification**

Film Name: Amorphous Silicon  
 Process ID: D02LAS  
 Scientific: Silicon - Si  
 Classification: Standard

**Applications**

MEMS Base Material  
 Masking  
 Patterning

**Features**

Low Cost  
 Variable Processing Parameters  
 Large Batch Capacity  
 Custom Fixturing Available

**Standards & Guarantees**

Inspection: Standard I/O - First & Last  
 Guaranteed: Thickness (On Si Monitors)  
 Referenced: Refractive index N/A

*Items may vary when ordering outside the standard*

**Other Information**

- Adjustment for Temperature Restrictions: Some customers supplying Shott Borofloat or Pyrex wafers have requested preferred running temperatures of 520C or 510C to minimize breakage due to thermal shock. If your wafers require a special running temperature or your targets are of these materials please see our product type: LPCVD Amprphous Silicon (Glass Safe).

**Film Specifications**

Film Thickness	Standard	1,500A to 2,000A
	Adjustable Range	100A to 5,000A
Refractive Index	Standard	N/A
	Adjustable Range	Fixed
Film Uniformity	Edge to Edge	10%
	Across Load	10%
Deposition Temp	Standard	540C
	Adjustable Range	Fixed
Film Stress	Standard	Compressive
	Adjustable Range	Fixed

**Film Properties**

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