

**Product Identification**

Film Name: Polysilicon  
 Process ID: D02PLY  
 Scientific: Silicon - Si  
 Classification: Standard

**Applications**

Masking  
 Barrier Layer  
 Adhesion Layer  
 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**

- Appearance: Thicker polysilicon has a crystal structure which appears as a milky haze.

**Film Specifications**

Film Thickness	Standard	500A to 5,000A
	Adjustable Range	Up to 1um
Refractive Index	Standard	N/A
	Adjustable Range	Fixed
Film Uniformity	Edge to Edge	10%
	Across Load	10%
Deposition Temp	Standard	620C
	Adjustable Range	Fixed
Film Stress	Standard	Compressive
	Adjustable Range	N/A

**Film Properties**

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