



Desert Silicon Inc.
 941 S. Park Ln.
 Tempe AZ 85281
<http://www.desertsilicon.com/>

Spin-on-Glass P-210

Elements of Interest Si, O, P	Key Element, atoms/cm³ P, 1x10 ²¹	Key Element % in Film Phosphorus
Viscosity 0.9 cps	Thickness Coats 2000 Å at 3000 rpm Refractive Index 1.46	Shelf Life 20°C 3 months 4°C 9 months

Benefits

- Light phosphorus doping level
- Easy shipping without POCl₃ complications
- Lower maintenance and cost of ownership
- High purity materials
- Uniform coatings
- Lower melting point than silica alone
- Stable processing independent of flow rates
- Available with impurity specification of less than 1 ppm or less than 50 ppb.

Typical Application

This is a standard phosphorous doped silicate glass very typical for semiconductor applications. It begins curing at about 200°C to give a less dense but solid film. It continues to become increasingly dense as bake temperatures rise to 650°C or higher. We recommend baking at the highest temperature the material will see in any post processing if the material is to remain with the part. For doping applications the glass is often removed after the drive-in procedure.

The phosphorous in the glass matrix can act as a getter for sodium and other mobile ions. This reduces the effective concentration of unwanted ionic species.

Packaging

- 240 ml
- 500 ml
- 1 L
- 2.5 L
- 4 L

Alternative Products

- P-220
- P-230
- P-240
- P-250

Elements Available to Add

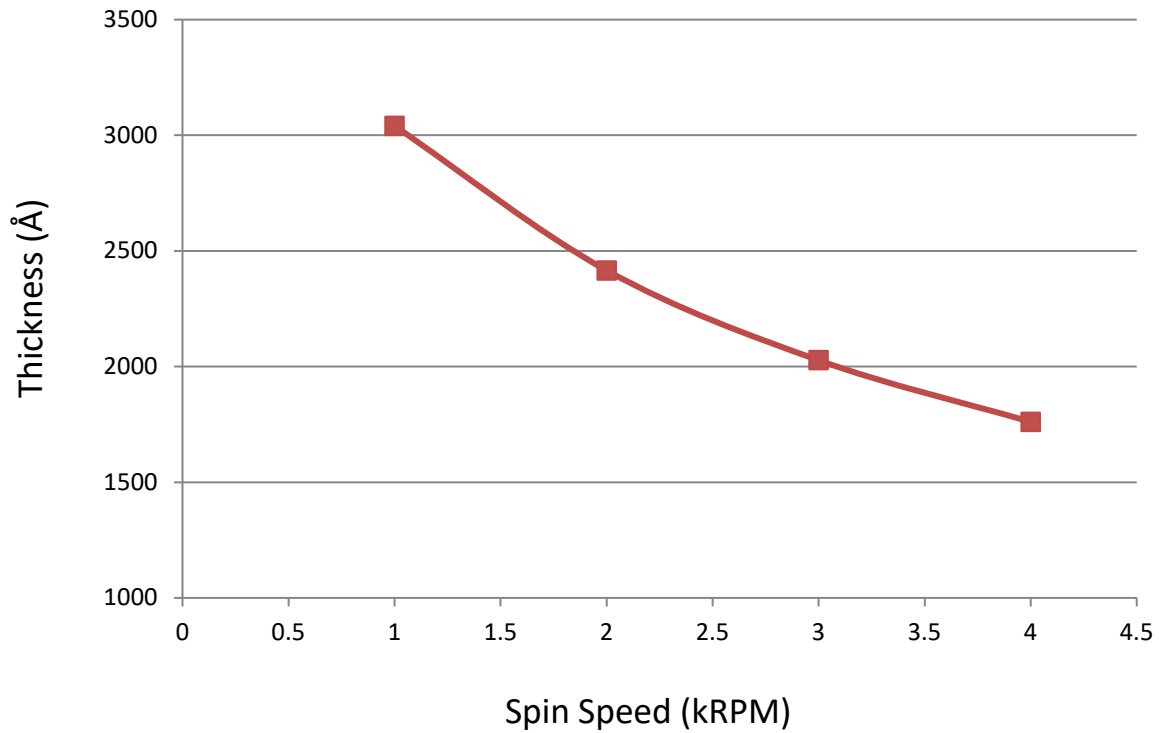
- As
- Sb
- Bi
- Blends of two or more elements
- Other elements are available for compound semiconductor use

DESERT SILICON, INC.
 PHONE: (623) 872-8659

941 S. PARK LANE
 EMAIL: INFO@DESERTSILICON.COM

TEMPE, ARIZONA 85281
 WEBSITE:
WWW.DESERTSILICON.COM

Spin Speed Curve for P-210



Although all statements and information presented in this document are believed to be accurate and reliable, they are presented without warranty or guarantee of any kind, express or implied. Information presented does not relieve the end user from carrying out their own tests to determine suitability for use in their application. User assumes all risk and liability for use product or information and results obtained. Suggestions for use of material and processes are made without representation or warranty that any such is free from patent infringement and are not recommendations for patent infringement. Please see MSDS for information regarding health and safety of material use.

DESERT SILICON, INC.
PHONE: (623) 872-8659

941 S. PARK LANE
EMAIL: INFO@DESERTSILICON.COM

TEMPE, ARIZONA 85281
WEBSITE:
WWW.DESERTSILICON.COM