



Spin-on-Glass P-250

Elements of Interest Si, O, P	Key Element atoms/cm³ P, 5x10 ²¹ 7.7 x 10 ²¹	Key Element % in Film Phosphorus
Viscosity 1.3 cps	Thickness Coats 2100 Å at 3000 rpm Refractive Index 1.43	Shelf Life 20°C 3 months 4°C 9 months

Benefits

- Highest Phosphorus doping level
- Uniform Coatings
- Easy shipping without POCl₃ complications
- Lower melting point than silica alone
- Lower maintenance and cost of ownership
- Stable processing independent of flow rates
- High purity materials
- 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 stronger as bake temperatures rise to 650°C or higher. We recommend baking at the highest temperature the material will see in any post processing. 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

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

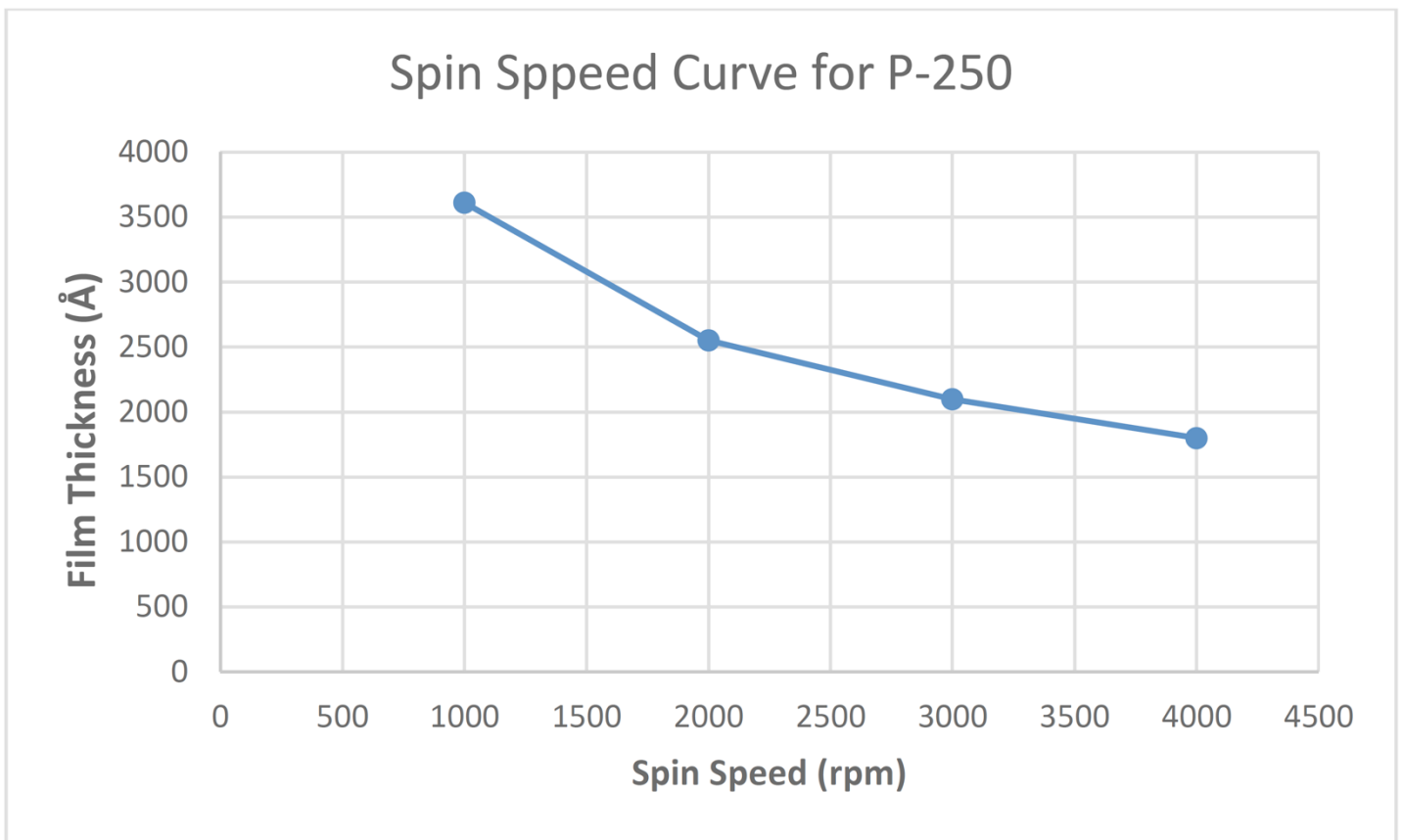
Alternative Products

- P-210
- P-220
- P-230
- P-240

Alternate Elements to Add

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

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