

# Spin-on-Glass P-230

<b>Elements of Interest</b> Si, O, P	<b>Key Element atoms/cm<sup>3</sup></b> P, 3x10 <sup>21</sup>	<b>Key Element % in Film</b> Phosphorus
<b>Viscosity</b> 1.1 cps	<b>Thickness</b> Coats 2800 Å at 3000 rpm Refractive Index 1.46	<b>Shelf Life</b> 20°C 3 months 4°C 9 months

## Benefits

- Medium phosphorus doping level
- Easy shipping without POCl<sub>3</sub> 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 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

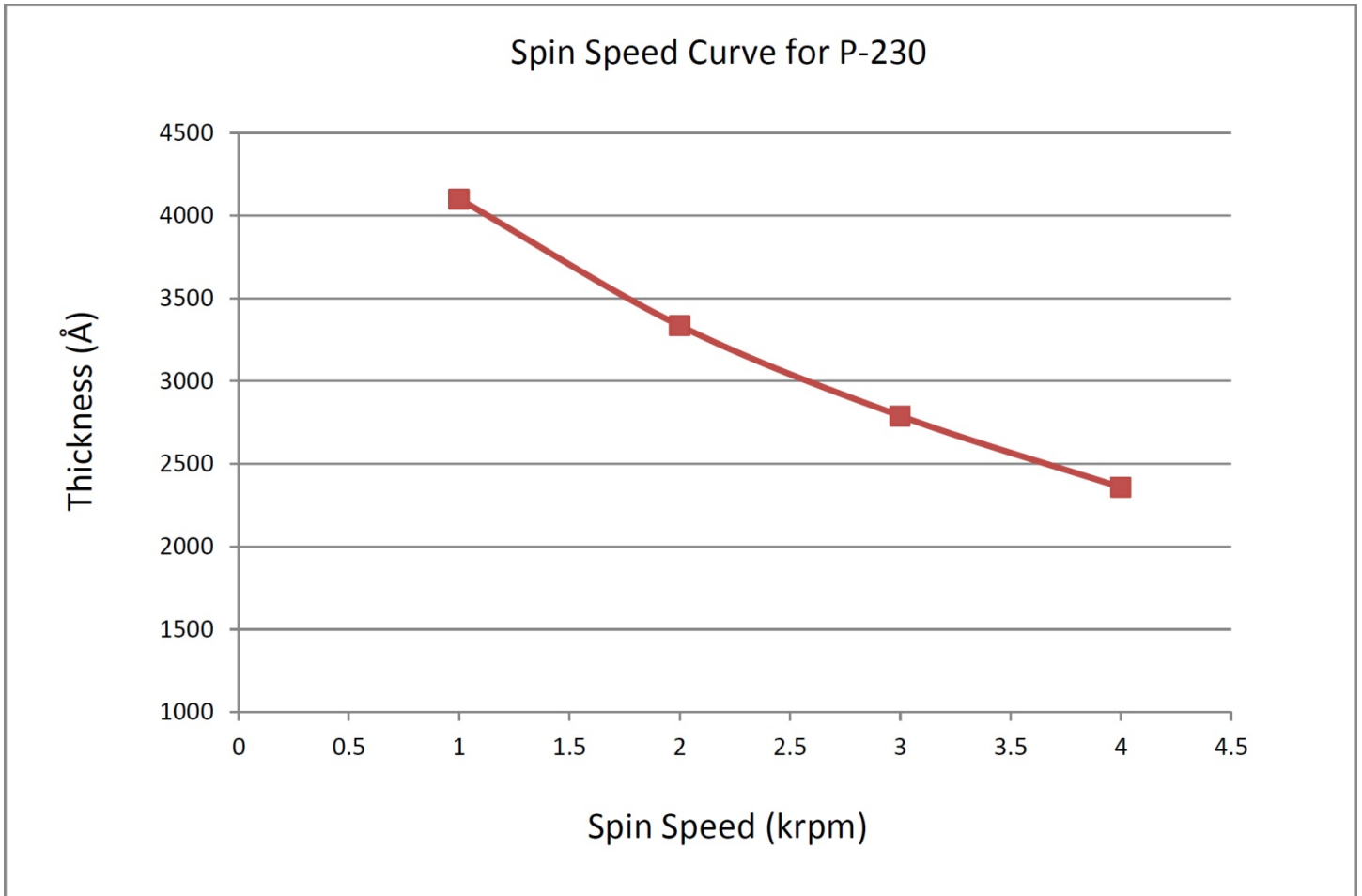
## Alternative Products

- P-210
- P-220
- P-240
- P-250

## Elements Available to Add

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

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