

# Spin-on-Glass P-280HP

<b>Elements of Interest</b> Si, O, P	<b>Key Element atoms/cm<sup>3</sup></b> P, $1.9 \times 10^{22}$	<b>Key Element % in Film</b> Phosphorus
<b>Viscosity</b> 1.3 cps	<b>Thickness</b> Coats 2200 Å at 3000 rpm	<b>Shelf Life</b> 20°C 3 months 4°C 9 months

## Benefits

- Highest 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
- Low PPB range

## Typical Application

This is a standard silicate phosphorous doped glass very typical for semiconductor applications. Typical curing at 150° - 200°C gives a low density but solid film. It continues to become increasingly dense as temperature increases to 300-650°C or higher. We recommend baking at the highest temperature the substrate will see in any post processing. For doping applications the glass is often removed after drive in. The phosphorous in the glass matrix can also act as a getter for sodium and other mobile ions. This reduces the effective concentration of unwanted ionic species in the semiconductor substrate.

## Packaging

- 8 oz (240ml)
- 16 oz (500ml)
- Larger sizes available for high volume applications

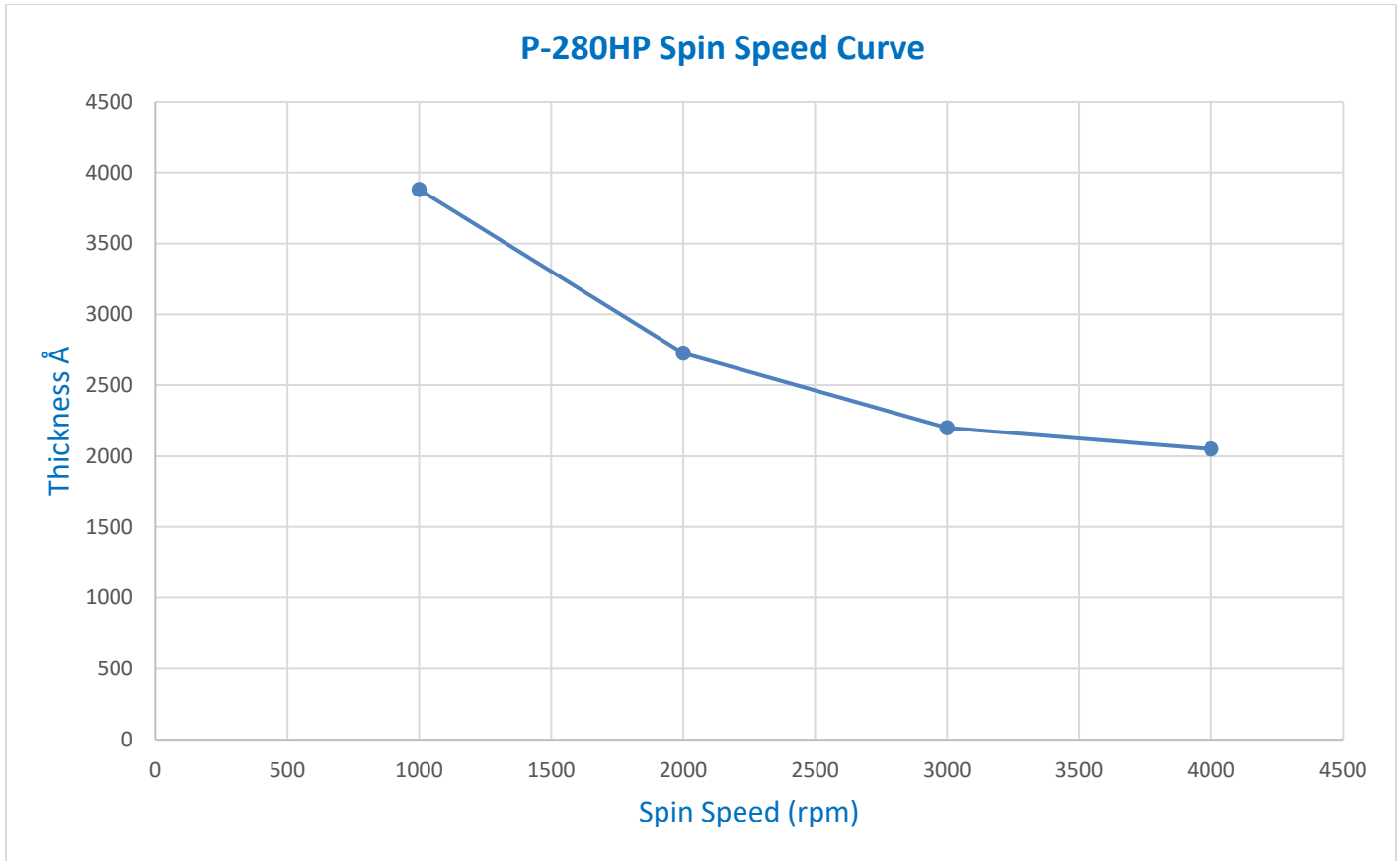
## Alternative Products

P-240  
P-250  
P-260  
P-640

## Alternate Elements to Add

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

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