Spin-on-Glass P-250HP

<table>
<thead>
<tr>
<th>Elements of Interest</th>
<th>Key Element atoms/cm³</th>
<th>Key Element % in Film</th>
</tr>
</thead>
<tbody>
<tr>
<td>Si, O, P</td>
<td>7.7 X 10^21</td>
<td>Phosphorus</td>
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<table>
<thead>
<tr>
<th>Viscosity</th>
<th>Thickness</th>
<th>Shelf Life</th>
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<tbody>
<tr>
<td>1.3 cps</td>
<td>Coats 2100 Å at 3000 rpm</td>
<td>20°C 3 months</td>
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<tr>
<td></td>
<td>Refractive Index 1.43</td>
<td>4°C 9 months</td>
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</tbody>
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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
- Low PPB range

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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