Spin-on-Glass LiP-864

**Elements of Interest**
- Si, O, Li, P

**Key Element atoms/cm³**
- Li, 4E+21
- P, 4E+21

**Key Element % in Film**
- Phosphorous 50%
- Lithium 50%

<table>
<thead>
<tr>
<th>Viscosity</th>
<th>Refractive Index</th>
<th>Thickness</th>
<th>Shelf Life</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.3 cps</td>
<td>1.46</td>
<td>Coats 2900 Å at 3000 rpm</td>
<td>20°C 3 months 4°C 9 months</td>
</tr>
</tbody>
</table>

**Viscosity**

**Refractive Index**

**Benefits**
- Uniform Coatings
- High purity materials
- High P & Li doping levels
- Available with impurity specification of less than 1 ppm or less than 50 ppb
- Lower maintenance and cost of ownership

**Typical Application**

This is a custom lithium-phosphorous doped silicate for special research applications. It begins curing at about 200°C to give a less dense but solid film. It continues to become increasingly dense as bakes continue to 300-650°C or higher. We recommend baking at the highest temperature (or higher) that the substrate will see in any post SOG processing. The concentration of the source for driving-in is typically high and leaves a high concentration of dopant right at the surface. During drive in, the dopant diffuses into the substrate. For doping applications, the glass is typically removed after diffusion.

**Packaging**
- 240ml
- 500ml
- 1 l
- 2.5 l
- 4 l

**Alternative Products**
- LiP-260
Other target concentration levels available.

**Alternate Elements to Add**
Blends of two or more elements
Other elements available for compound semiconductor use.
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