Desert Silicon
LIQUID SOURCE SOLUTIONS

Spin-on-Glass Li-260N

Elements of Interest	Key Element atoms/cm^3	Refractive Index
Si, Li, O	Li, 4E+21	1.46
Viscosity	**Thickness**	**Shelf Life**
0.9 cps	Coats 1800 Å at 3000 rpm	20°C 3 months 4°C 9 months

Benefits

- Uniform Coatings
- High purity materials
- Available with impurity specification of less than 1 ppm or less than 50 ppb
- For final target concentration ranges from 5E+17 to 5E+19 of Lithium

Typical Application

This is a standard silicate Lithium doped 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 dense as bakes continue to 650°C or higher.

The concentration of the source for driving-in is typically high; in the range of 4E+21 this leaves a high concentration of dopant right at the surface. During drive in, the dopant diffuses into the substrate. Li-260N adds a level of dopant consistent with the final desired concentration. Li-260N has a film concentration of 4E+21 lithium atoms per cubic centimeter.

Packaging

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

Alternative Products

Other target concentration levels available.

Alternate Elements to Add

- Other elements available for compound semiconductor use

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