

## Ultralow dielectric constant optical thin film

### Application examples

Microelectronics  
Optics

### Ideal deposition process

Dip-coating

### Ideal type of substrate

Any one  
resistant to 250°C

### Layer properties:

Composition:  $MgF_2$

Young modulus  $E = 1$  Gpa

Dielectric constant  $k = 1,6$  (at 100 kHz)

Thickness from 50 to 500 nm

Refractive index from 1.07 to 1.23 (at 700nm)

Water repellent layer

