

Evaporation Materials

LUMILEAD SiO

Characteristic

- ◆Reduced splashing (reduced by 85%, in-house test)
- ◆Refractive index of approx. 2.0-1.45 (depending on conditions)
- ◆Excellent adhesion as a resin adhesion layer

Applications

Optical (intermediate-refractive-index film, protective film), film (sealing film), resin, etc.

Performance

Measurement conditions	
Measurement device	Microparticle visualization system
Evaporation rate	3 [Å/s]
Measuring time	10 [sec]
Note: Between 60 sec and 70 sec after deposition starts	

Number of Splashes during Deposition

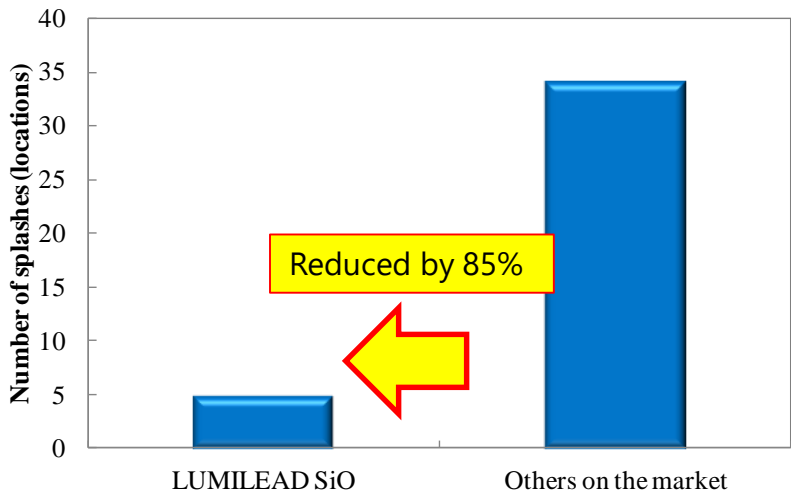


Image of splashes



LUMILEAD SiO



Others on the market

Product Lineup

Product Name	Form	Size
LUMILEAD SiO	Amorphous granular	2-4 [mm]



Deposition Condition Examples

Deposition Conditions		
Chamber diameter	Φ1,300 [mm]	
Evaporation source	Electron beam	
Oxygen introduction	3.0×10^{-2} [Pa]	
Ion assist (IAD)	None	
Evaporating distance	1,100 [mm]	
Substrate heating	No heating	
Evaporation rate	3 [Å/s]	
Film thickness	50 [nm]	
Degree of vacuum at start of evaporation	1.0×10^{-3} [Pa] or lower	
Substrate to be vapor-deposited, size	Optical glass BK7 Φ30 × t 3 mm	

Electron Beam Conditions			
	AMP.	Emission [mA]	Time [min'sec]
Pre-melting	6.5	100	0'30
Evaporation	6.5	Rate control	-

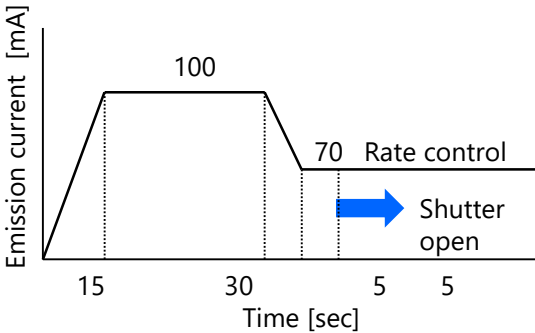


Figure: Electron beam conditions

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