umicore
Metal Deposition Solutions

LaF3 99.9% 0.7-3.5mm 500g (0481354)

Specifications

Coating material	Lanthanum fluoride
Purity	99.9%
Form	Granulate
Dimensions	0.7 - 3.5 mm
Quantity	500 g
HazardPictogram	GHS07
Statement	Warning
Theoretical density at 20°C in g/cm³	6.0
Melting point in °C	~ 1490

Temperature at vapor pressure

10^{-2} mbar in °C	1270
10^{-1} mbar in °C	1417

Type of evaporation

Sublimation	Good

Evaporation source (typically)

E-gun

Liner material

Mo	Good

Boat

Boat material

Ta	Good

Specific evaporation conditions

Preparation of base melt (premelt)	Possible
Low residual pressure	Good

Substrate temperature range

100 - 200 °C	Good
200 - 300 °C	Good

Film transparency

Low	0.15
High	12

Film refractive index n / extinction coefficient k

at 550 nm: n	1.58-1.65
at 10 µm: k	~ 1.35