Evaporation Materials

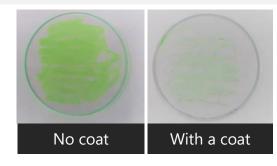
Fluorine free water repellent coating material

• Make water flow more easily

•Fluorine-free polymer design

Characteristic

- Water repellent: reduces the adhesion of water drops, water marks
- ◆ Antifouling: Improved wipability of ink, fingerprints, etc.
- Slipperiness : Improved slipperiness of water droplets
- ◆ Low refractive index: provides less impact on optical properties

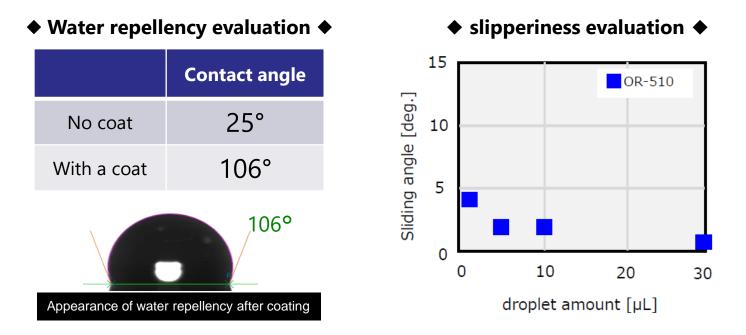


OR-510

Basic Features

- 1. Contact angle: 106° (2.5 µl of pure water)
- 2. Sliding angle: 1° (30 μ l of pure water)
- 3. Refractive index: 1.33(550 nm)
- 4. Recommended coat thickness: 6nm

Performance



Values described in this document are actual measurements, not product specification values. Please make sure that this product is fit for purpose, including performing preliminary tests, before starting to use it.

Applications



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Product Name	Size	Size Corresponding to Evaporation System*
OR-510	Ф8×4t [mm]	≦Φ900 [mm]

*The corresponding size is an approximation, and is not guaranteed.

Deposition Condition Examples

Product Lineun

Deposition Condition	ons			
Chamber diameter			Ф900 [mm]	
Evaporation source			SiO ₂ : Electron beam OR-510: Resistance heatin	g (W boat)
Oxygen introduction			None	
		lon assist (IAD)	None	
	Ev	aporating distance	900 [mm]	
Substrate heating			No heating	
Film thickness			SiO ₂ : to be terminated when deposition reaches 100Å OR-510: to be terminated when the light value on the monitor stops decreasing at a certain point	
Degree of vacuum at start of evaporation			1.0×10 ⁻³ [Pa] or lower	
Substrate to be vapor-deposited, size			Optical glass BK7 Φ30 ×1	t 3 [mm]
SiO ₂ Electron beam Conditions				
	AMP.	Emission current [mA]	Time [min'sec]	
Pre-melting	5.0	140→70	1'30″	_
Evaporation	5.0	Rate control (1 Å/sec)	Approximately 1'30"	OR-510
OR-510 Resistance Heating Conditions				SiO ₂
	Cı	urrent [A]	Time	Substrate/Lens
Evaporation	ration 70		(Until fully evaporated)	Film Structure

All the data listed in this Pamphlet Data are either values measured by our company or quoted from the literature. However, we cannot accept any liability for any troubles or damage caused by using any of these data.

In order to use the product safely and correctly, please first read the Product Safety Data Sheet.

Pamphlet Data contained herein is the data as of December 2022.

Note that the specifications of this Pamphlet Data and/or product appearance are subject to change for improvement, etc. without prior notice.

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Please contact us for any inquiries/requests about the product, for more details, or for product catalogs, etc.



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